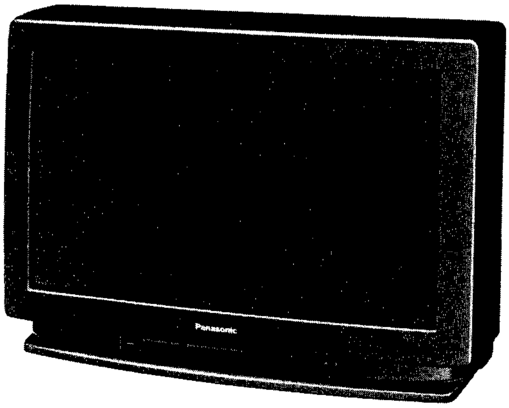
ORDER NO. ITD9410036C3

Service Manual

Colour Television

TX–24WG10X
TX–28WG10X

M17W Chassis



PANA -09958

GAOO
WIDE

Specifications

Model No.	TX–24WG10X	TX–28WG10X
Power Source	AC Auto 110–240V 50 / 60 Hz	
Power Consumption	160W(Max) / 3.0W(Stand–by condition)	175W(Max) / 3.0W(Stand–by condition)
Aerial Impedance	75Ω unbalanced, Coaxial type	
Receiving System	21 SYSTEM	
Tuning System	FS (100 POS)	
Receiving Channel	VHF BAND 2–12 (PAL/SECAM–B,K1) 0–12 (PAL–B AUST.) 1– 9 (PAL–B N.Z) 1–12 (PAL/ SECAM–D) 1–12 (NTSC–M JAPAN) 2–13 (NTSC–M U.S.A.) UHF BAND 21–69 (PAL–G, H, I) 21–69 (SECAM G, K, K1) 28–69 (PAL–B AUST) 13–57 (PAL D, K) 13–62 (NTSC–M JAPAN) 14–69 (NTSC– M U.S.A.) CATV S1–S20 (OSCAR) S21–S41 (HYPER) 1–125 (U.S.A.) C13–C49 (JAPAN) 5A,9A (AUST) Z1–Z37 (CHINA)	
Intermediate Frequency	Video 38.0MHz Colour 33.57MHz(PAL) 33.6MHz (SECAM) 33.75MHz (SECAM) 34.42MHz (NTSC) Sound 31.5MHz(D,K) 32.0MHz(I) 32.5MHz(B,G) 33.5MHz (M)	
Receiving Stereo	NICAM B/G, NICAM I , GERMAN (A2)	
Receiving Teletext	FLOF system capability	
Video / Audio Terminals	AV1, 2, 3 IN Video(Phone) 1Vp–p 75Ω S–Video Y : 1.0Vp–p 75Ω C : 0.3Vp–p 75Ω Audio(Phone) Approx. 400mV Surround Speaker Terminals Terminal Impedance 8~16Ω Monitor OUT Video(Phono) 1Vp–p 75Ω Audio(Phono) Approx. 400mV	
High Voltage	31.0KV at zero beam current	
Picture Tube	W56LCF865X Type 24 (60cm) 106°deflection AS Corting	W66LFC995X Type 28 (71cm) 106° deflection AR/AS Corting
Audio Output	7W(Max)x2 Impedance 8Ω	12W(Max)x2 Impedance 8Ω
Headphones	Impedance 8Ω	
Speaker	NEW DOME SOUND SYSTEM	NEW DOME SOUND SYSTEM
Dimensions	H : 42.4cm / W : 61.4cm / D : 43.6cm	H : 49.2cm / W : 70.5cm / D : 51.0cm
Mass	28.0kg(Net)	40.0kg(Net)
Accessories Supplied	Remote Controllerx1 (EUR51905) / R6(AA) Batteryx2	

Note : Mass and dimensions shown are approximate. Specifications are subject to change without notice.

Panasonic

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9958

⚠ WARNING

This service literature is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warning or cautions to advise non–technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service literature by anyone else could result in serious injury or death.

Contents

- Safety Precautions
  - General Guide Lines, Leakage Current Cold Check, Leakage Current Hot Check 3
- Location of Controls 4
- Remote Control Function 5
- Tuning Procedure6 6
- Location of Controls and Circuit Boards 11
- Service Hints
  - How to move chassis into service position / How to remove G–Board from Control Bracket 12
  - Service position for B1 / Y1 / X1 / T / F–Board 13
  - How to remove H–Board / How to disconnect A–Board / D Board connector 13
- Special Servicing Procedure
  - 1. Self Check Function 14
  - 2. How to replace memory IC (IC1211) 14
- Market Mode Function
  - 1 Market Mode Function 15
  - 2. Option Normal Setting Mode (CHK1) 16
  - 3. Market Mode VCJ Adj.(CHK2) 16
  - 4. White Balance Adjustment Mode (CHK3) 17
  - 5. Pincushion Adjustment Mode (CHK4 ~CHK8) 17
- Adjustment
  - 1. Flow chart of Electric Adjustment 18
  - 2. Electrical Adjustments 19
    - B Voltage,High Voltage, Shut–down Confrimation, RF AGC, Text Contrast 19
    - Sub Contrast 1 (FULL / 4:3 Mode), Sub NTSC TINT 1 & 2 Adjustment, M–NTSC Colour Output 20
    - PAL Colour Output 1 (Full Mode / 4:3 Mode) ,SECAM Colour Output 21
    - Colour Purity (MARKET MODE CHK3), Convergence (MARKET MODE CHK3) 22
    - White Balance (MARKET MODE CHK3) 23
  - 3 .Deflection Adjustment (CHK 4, 5, 6, 7 and 8 Mode) 24
- Location of Lead Wiring 26
- Conductor Views
  - Y1–Board 28,29
  - B–Board 30
  - A–Boards 31
  - D, H–Boards 32
  - X1–Board 33
  - X2–Board 34
  - L, Z, F–Boards 35,36
  - G, K1, K2, T–Boards 37
- Block Diagrams
  - Power, Video Block 38,39
  - Audio, Control Block 40,41
- Schematic Diagrams
  - Remote Controller EUR51905 42
  - Block Diagram for Integrated Circuit 43
  - P–Board 47
  - A–Board 48
  - D–Board 49
  - H–Board 50
  - Y1–Board 51
  - F, Z–Boards 52
  - B–Board 53
  - L–Board 54
  - X1, X2–Boards,G, K1, K2–Boards 55,56
  - T–Board / Waveform Pattern Table 57
- Parts Location & Mechanical Replacement Parts List 58
- Replacement Parts List 59

Safety Precautions

General Guide Lines

1. It is advisable to insert an isolation transformer in the AC supply before servicing a hot chassis.
2. When servicing, observe the original lead dress, especially the lead dress in the high voltage circuits.
   If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
3. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers, shields, and isolation R–C combinations, are properly installed.
4. When the receiver is not to be used for a long period of time, unplug the power cord from the AC outlet.
5. Potential, as high as 32.0 kV, is present when this receiver is in operation. Operation of the receiver without the rear cover involves the danger of a shock hazard from the receiver power supply. Servicing should not be attempted by anyone who is not thoroughly familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the picture tube to the receiver chassis before handling the tube.
6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazards.

Leakage Current Cold Check

1. Unplug the AC cord and connect a jumper between the two prongs on the plug.
2. Turn on the receiver's power switch.
3. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the receiver, such as screw heads, aerials, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between 4 MΩ and 20 MΩ.
   When the exposed metal does not have a return path to the chassis, the reading must be ∞.

Leakage Current Hot Check (See Fig. 1)

1. Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
2. Connect a 2 kΩ, 10W resistor, in series with an exposed metallic part on the receiver and an earth such as a water pipe.
3. Use an AC voltmeter, with high impedance type, to measure the potential across the resistor.
4. Check each exposed metallic part,and measure the voltage at each point.
5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 1.0 V rms. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the receiver should be repaired and rechecked before it is returned to the customer.

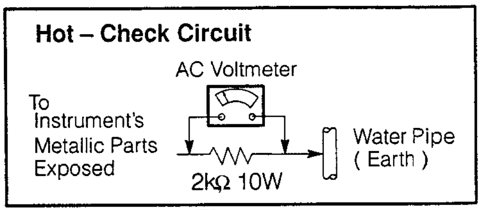


Fig. 1

X–Radiation

Warning :

1. The potential sources of X–Radiation in TV sets are the High Voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that jig is capable of handling 32.0 kV without causing X–Radiation.

Note : It is important to use an accurate periodically calibrated high voltage meter.

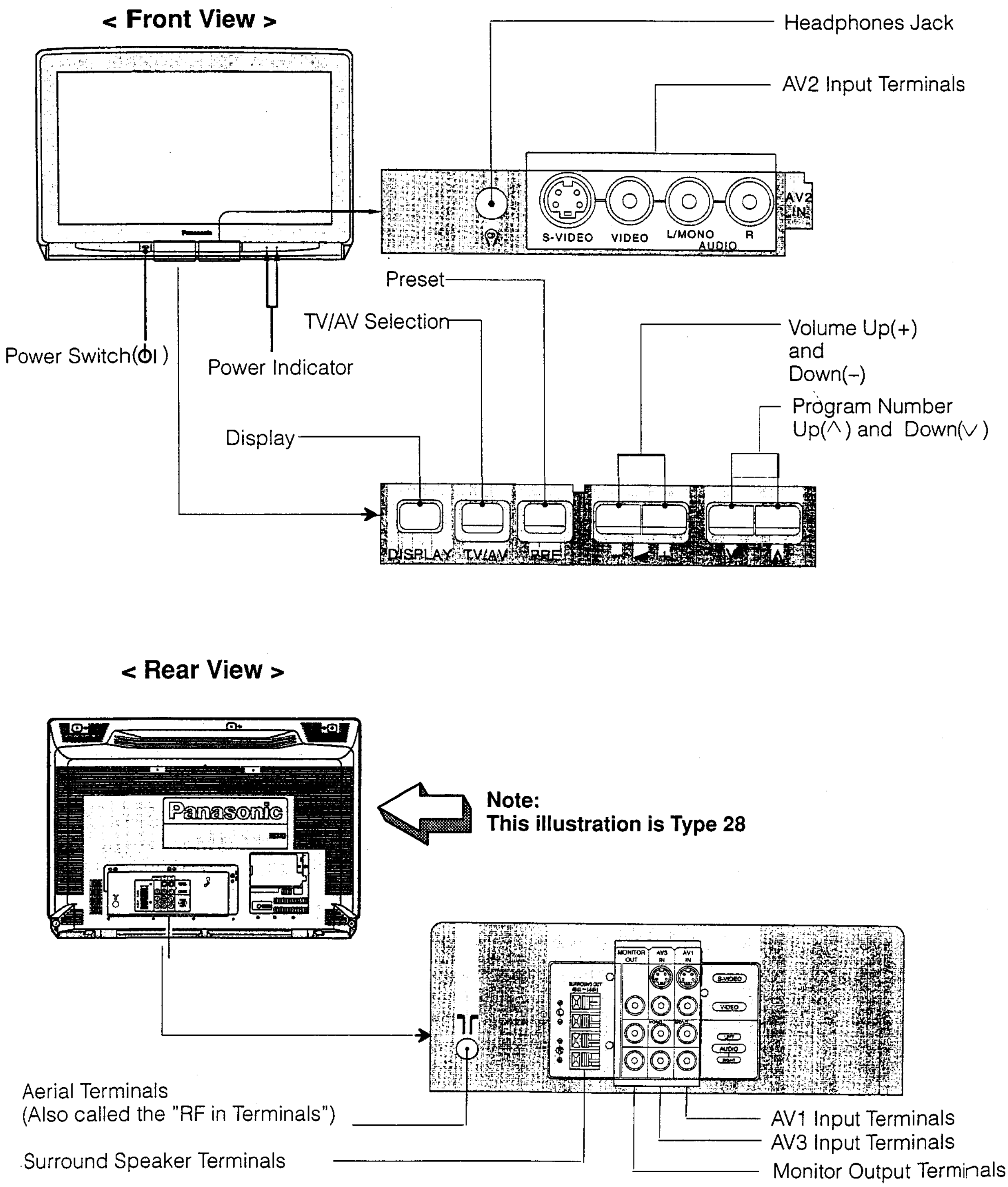
1. Set the brightness to minimum.
2. Set the picture screen to the one horizontal line in MARKET MODE CHK3 (refer to page 17).
3. Measure the High Voltage. The meter reading should indicate 31.0 (+1.0, –1.0) kV. If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
4. To prevent an X–Radiation possibility, it is essential to use the specified picture tube.

Shut Down Circuit Test

This test must be made as a final check before the set is returned to the customer.

1. Operates the TV set.
2. Set Controls :
   Screen (on FBT), Contrast, Colour .. . minimum
3. Connect a DC voltmeter to TPD19, and confirm that the voltage reading is 21.0 V. (or less than.)
4. Supply 20.1 V DC to cathode of D555 by DC power supply and confirm that the shut down circuit does not operate.
5. Supply 22.2 V DC to cathode of D555, and confirm that the shut down circuit operates.

Location of Controls



< Front View >

< Rear View >

Note:
This illustration is Type 28

Headphones Jack
AV2 Input Terminals
S-VIDEO
VIDEO
L/MONO
AUDIO
R
AV2
IN
Preset
TV/AV Selection
Power Switch(⏻)
Power Indicator
Display
Volume Up(+)
and
Down(–)
Program Number
Up(^) and Down(v)
DISPLAY
TV/AV
PRE
Panasonic
MONITOR OUT
AV3 IN
AV1 IN
S-VIDEO
VIDEO
AUDIO
Aerial Terminals
(Also called the "RF in Terminals")
Surround Speaker Terminals
AV1 Input Terminals
AV3 Input Terminals
Monitor Output Terminals

Fig. 2

Remote Control Function

Remote Control

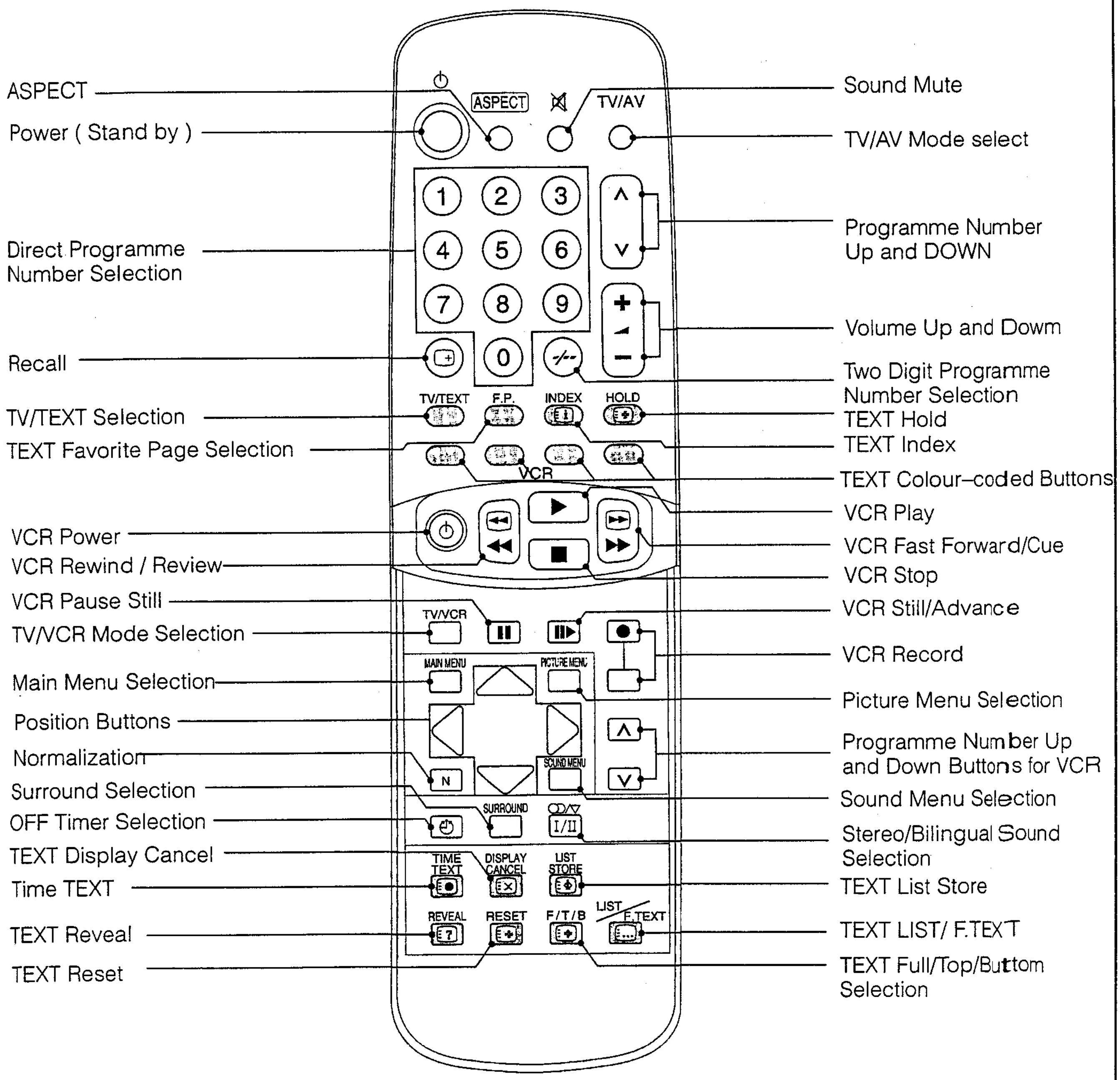
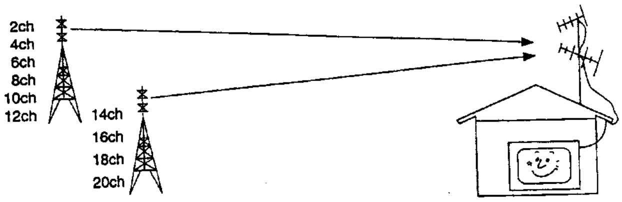

ASPECT
Power (Stand by)
Direct Programme Number Selection
Recall
TV/TEXT Selection
TEXT Favorite Page Selection
VCR Power
VCR Rewind / Review
VCR Pause Still
TV/VCR Mode Selection
Main Menu Selection
Position Buttons
Normalization
Surround Selection
OFF Timer Selection
TEXT Display Cancel
Time TEXT
TEXT Reveal
TEXT Reset
Sound Mute
TV/AV Mode select
Programme Number Up and DOWN
Volume Up and Dowm
Two Digit Programme Number Selection
TEXT Hold
TEXT Index
TEXT Colour–coded Buttons
VCR Play
VCR Fast Forward/Cue
VCR Stop
VCR Still/Advance
VCR Record
Picture Menu Selection
Programme Number Up and Down Buttons for VCR
Sound Menu Selection
Stereo/Bilingual Sound Selection
TEXT List Store
TEXT LIST/ F.TEXT
TEXT Full/Top/Buttom Selection
ASPECT
TV/AV
1
2
3
4
5
6
7
8
9
0
-/--
TV/TEXT
F.P.
INDEX
HOLD
VCR
TV/VCR
MAIN MENU
PICTURE MENU
N
SOUND MENU
SURROUND
I/II
TIME TEXT
DISPLAY CANCEL
LIST STORE
LIST
F.TEXT
REVEAL
RESET
F/T/B

Fig. 3

Tuning Procedure

Select the most easily viewed channel selection method.



POSITION SELECT

When the Cancel Selection is on POS. (Position), and Auto Search is performed, the unit memories the channels searched in order from programme No.1.

Press the button ①to view channel 2.

Press the button ②to view channel 4.

Press the button ③to view channel 6.

During Position mode various reception channels can be viewed.

EX.

Programme Number	Channel Display	Receive Channel
1	2	2
2	4	4
3	6	6
4	8	8
5	10	10
6	12	12
7	14	14
8	16	16
9	18	18
10	20	20

DIRECT SELECT

When the Cannel Selection is on DIRECT, and Auto Search is performed, the unit memories the programme number which is the same as the channel searched.

This method allows you to select the desired channel by pressing the channel display number directly on the remote control to select the station. The channel display numbers for the broadcast stations in each country are listed on page 7.

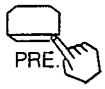
EX.

Programme Number	Channel Display	Receive Channel
1	–	–
2	2	2
3	–	–
4	4	4
5	–	–
6	6	6
7	–	–
8	8	8
9	–	–
10	10	10
.	.	.
20	20	20
.	.	.

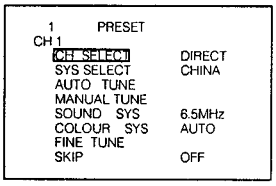
OPERATION

Before Country System Selection and Auto Search tuning, set the "CHANNEL SELECT" mode, as detailed below.

1



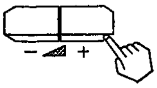
Press the "PRE."(PRESET) button, setting the Preset Menu to "CH SELECT".



1 PRESET
CH 1
CH SELECT DIRECT
SYS SELECT CHINA
AUTO TUNE
MANUAL TUNE
SOUND SYS 6.5MHz
COLOUR SYS AUTO
FINE TUNE
SKIP OFF

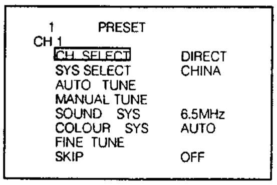
"CH SELECT" Condition.

2



Select the "CH SELECT (Channel Select)" Mode by pressing the Voume Up "+" or Down "–" Buton.

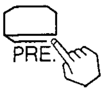
Note : Setting range when the "POS" (Position) has been selected : Position 0–99. Setting range when the "DIRECT" has been selected :Channel 0–125.



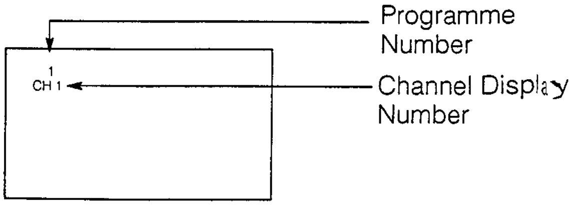
1 PRESET
CH 1
CH SELECT DIRECT
SYS SELECT CHINA
AUTO TUNE
MANUAL TUNE
SOUND SYS 6.5MHz
COLOUR SYS AUTO
FINE TUNE
SKIP OFF

The channel select indicator will change as follows.
DIRECT⟷ POS.

3



Press the "PRE." (PRESET) Button 8 times.

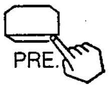


Country System Selection

OPERATION

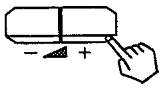
Before Country System Selection and Auto Search tuning, set the "CHANNEL SELECT" mode, as detailed below.

1



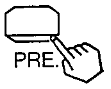
Press the "PRE."(PRESET) button twice, setting the Preset Menu to "SYS SELECT".

2

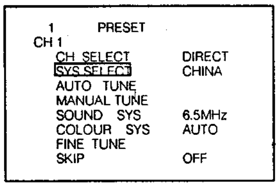


Select the appropriate System by pressing the Volume Up "+" or Down "–" Button, referring to "System Select by Country" as shown below.

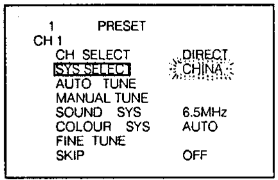
3



Press the "PRE." (PRESET) Button 7 times.

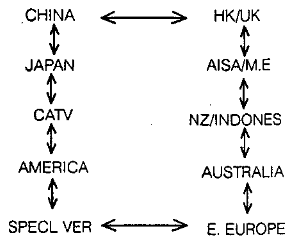


```
 1      PRESET
CH 1
  CH SELECT        DIRECT
  SYS SELECT       CHINA
  AUTO  TUNE
  MANUAL TUNE
  SOUND  SYS       6.5MHz
  COLOUR  SYS      AUTO
  FINE  TUNE
  SKIP             OFF
```



```
 1      PRESET
CH 1
  CH SELECT        DIRECT
  SYS SELECT       CHINA
  AUTO  TUNE
  MANUAL TUNE
  SOUND  SYS       6.5MHz
  COLOUR  SYS      AUTO
  FINE  TUNE
  SKIP             OFF
```

"SYS SELECT" Condition.



System Select by Country

SYSTEM SELECT	COUNTRY
CHINA	China
HK/UK	Hong kong, United Kingdom
ASIA/M.E	Malaysia, Singapore, Thailand, Asia countries, Kuwait, Saudi Arabia, United Arab Emirates, Middle East countries, etc.
NZ/INDONES	New Zealand, Indonnesia, etc.
AUSTRALIA	Australia
E.EUROPE	CIS, Poland, etc.
SPECL VER	South Africa
AMERICA	U.S.A. , Chile, Mexico, Panama, Peru, Philippines, Taiwan, Venezuel, etc.,
CATV	USA CATV
JAPAN	Japan

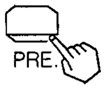
Channel Allocation

SYS SELECT	CHINA	HK / UK	ASIA/M.E	NZ/ INDONES	AUSTRALIA	E.EUROPE	SPECL VER	AMERICA	CATV	JAPAN
CH DISPLAY	RECEIVE CANNEL									
0	–	–	–	–	0	–	–	–	–	–
1	1	–	–	1	1	1	1	–	1	1
2	2	–	2	2	2	2	2	2	2	2
~	~	–	~	~	~	~	~	~	~	~
11		–	11	11	11	11	11			
12	12	–	12	–	12	12	12			12
13	13	–	–	–	–	–	13	13		13
14	~	–	–	–	–	–	–	14	~	~
~		–	–	–	–	–	–	~		
20		–	–	–	–	–	–			
21		21	21	21	–	21	21			
~		~	~	~	–	~	~			
28					28					
~					~					
57	57									
58	–									
~	–									
62	–	62	62	62	62	62	62	62	62	62
63	–	63	63	63	63	63	63	63	63	C13
~	–	~	~	~	~	~	~	~	~	~
69	–	69	69	69	69	69	69	69		
70	–	–	–	–	–	–	–	–		
~	–	–	–	–	–	–	–	–		
73	–	–	–	–	–	–	–	–		
74	–	S'1	S'1	S'1	–	S'1	S'1	–		
75	–	S'2	S'2	S'2	–	–	S'2	–		
76	–	S'3	S'3	S'3	–	–	S'3	–		
77	–	–	–	–	–	–	–	–		
78	–	–	–	–	–	–	–	–		
79	–	–	–	–	–	–	–	–		
80	–	S1	S1	S1	–	S1	S1	–		
81	Z1	S2	S2	S2	–	S2	S2	–		
~	~	~	~	~	–	~	~	–		
89	Z9	S10	S10	S10	–	S10	S10	–		
90	Z10	S11	S11	S11	5A	S11	–	–		
91	Z11	S12	S12	S12	9A	S12	–	–		
92	Z12	S13	S13	S13	–	S13	–	–		
93	Z13	S14	S14	S14	–	S14	S14	–		
94	Z14	S15	S15	S15	–	S15	S15	–		
95	Z15	S16	S16	S16	–	S16	S16	–		
96	Z16	S17	S17	S17	–	S17	S17	–		
97	Z17	S18	S18	S18	–	S18	S18	–		
98	Z18	S19	S19	S19	–	S19	S19	–		
99	Z19	S20	S20	S20	–	S20	S20	–	99	C49
100	Z20	S21	S21	S21	–	S21	S21	–	100	–
~	~	~	~	~	–	~	~	–	~	–
117	Z37				–			–		–
~	–				–			–		–
120	–	S41	S41	S41	–	S41	S41	–		–
~	–	–	–	–	–	–	–	–		–
125	–	–	–	–	–	–	–	–	125	–

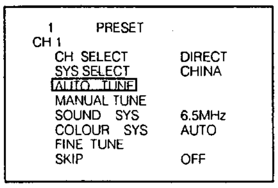
Automatic Tune (Channel Select and Country System must already be set; Refer pages 6 to 7)

This TV uses automatic tuning to determine whether or not a broadcast signal is being sent which it can receive, and automatically prepares so that the channel selection can respond to both the position select and direct select modes.

1



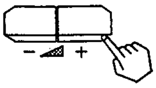
Press the "PRE."(PRESET) button 3 times.



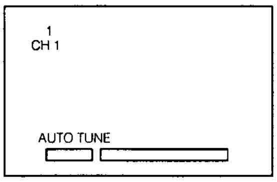
```
  1      PRESET
CH 1
  CH SELECT          DIRECT
  SYS SELECT         CHINA
  AUTO  TUNE
  MANUAL TUNE
  SOUND  SYS         6.5MHz
  COLOUR  SYS        AUTO
  FINE  TUNE
  SKIP               OFF
```

Automatic Search "AUTO TUNE" Condition.

2



Press the Volume Up "+" or Down "–" Button.

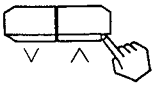


```
  1
CH 1



AUTO TUNE
```

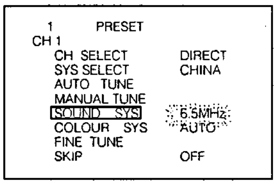
Search Start.

The best tuning position is automatically memorized.

3

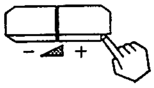


After all station are tuned, the on-screen display will automatically change from "AUTO TUNE" to "SOUND SYS" Position. Confirm the sound condition of each Programme Number by using the Programme Number UP "Λ" Button. If the Sound is not clear or no sound is produced on a Programme Number, then follow the next Step 4.



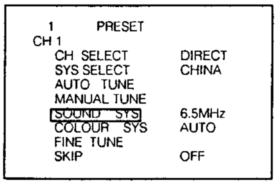
```
  1      PRESET
CH 1
  CH SELECT          DIRECT
  SYS SELECT         CHINA
  AUTO  TUNE
  MANUAL TUNE
  SOUND  SYS         6.5MHz
  COLOUR  SYS        AUTO
  FINE  TUNE
  SKIP               OFF
```

4



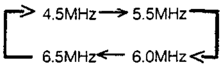
If necessary, press the Volume Up "+" or Down "–" Button, to improve the Sound quality.

Note: When sound volume is too small to confirm, turn it up by using the sound volume button of the remote control.

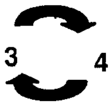


```
  1      PRESET
CH 1
  CH SELECT          DIRECT
  SYS SELECT         CHINA
  AUTO  TUNE
  MANUAL TUNE
  SOUND  SYS         6.5MHz
  COLOUR  SYS        AUTO
  FINE  TUNE
  SKIP               OFF
```

This sound indicator will change as follows.

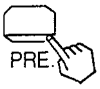


5

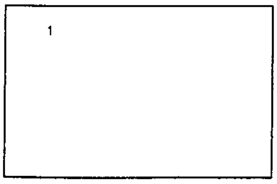


Use the Programme Number Up "Λ " button to sequentially check each station. If necessary, repeat step 4 for each Programme Number.

6



After all station are tuned, press the "PRE." (PRESET) button 4 times.

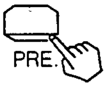


```
  1
```

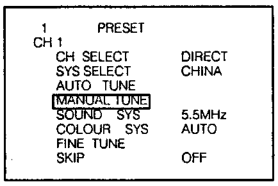
This returns the set to the normal viewing condition. Programme Number memory location.

Manual Tuning (Channel Select and Country System must already be Refer to page 6 to 7)

1



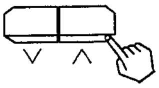
Press the "PRE."(PRESET) button 4 times.



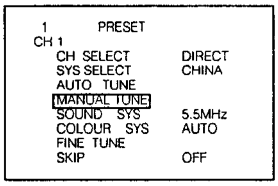
1 PRESET
CH 1
CH SELECT DIRECT
SYS SELECT CHINA
AUTO TUNE
MANUAL TUNE
SOUND SYS 5.5MHz
COLOUR SYS AUTO
FINE TUNE
SKIP OFF

Manual Search "AUTO TUNE" Condition.

2



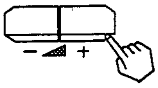
Press either the Programme Number Up "∧" or Down "∨" Button.



1 PRESET
CH 1
CH SELECT DIRECT
SYS SELECT CHINA
AUTO TUNE
MANUAL TUNE
SOUND SYS 5.5MHz
COLOUR SYS AUTO
FINE TUNE
SKIP OFF

Select the desired Pro-gramme Numbert.

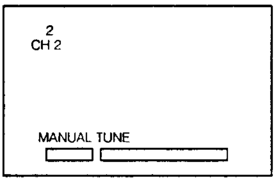
3



Press the Volume Up "+"or Down "–" Button.

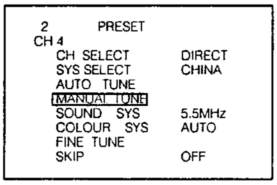
Volume Up "+": Next higher Channel.

Volume Up "–": Next lower Channel.



2
CH 2
MANUAL TUNE

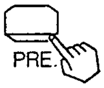
Search start.



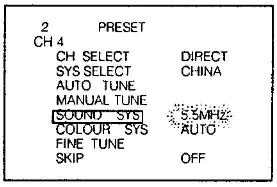
2 PRESET
CH 4
CH SELECT DIRECT
SYS SELECT CHINA
AUTO TUNE
MANUAL TUNE
SOUND SYS 5.5MHz
COLOUR SYS AUTO
FINE TUNE
SKIP OFF

The best tuning position is automatically memorized.

4



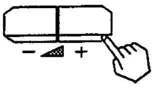
Press the "PRE."(PRESET) button.



2 PRESET
CH 4
CH SELECT DIRECT
SYS SELECT CHINA
AUTO TUNE
MANUAL TUNE
SOUND SYS 5.5MHz
COLOUR SYS AUTO
FINE TUNE
SKIP OFF

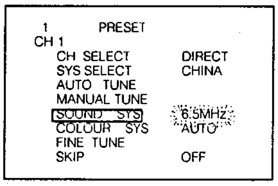
"SOUND SYS" Condition.

5



If the sound is not clear or no sound is produced on a Programme Number Position press the Volume Up "+" or Down "–" Button .

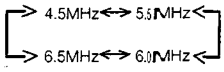
Note: When sound volume is too small to confirm, turn it up by using the sound volume button of the remote control.



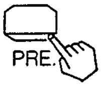
1 PRESET
CH 1
CH SELECT DIRECT
SYS SELECT CHINA
AUTO TUNE
MANUAL TUNE
SOUND SYS 6.5MHz
COLOUR SYS AUTO
FINE TUNE
SKIP OFF

You may improve the Sound quality.

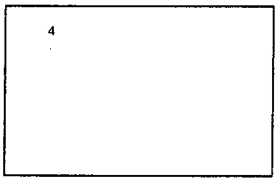
The sound indicator will change as follows.



6



Press the "PRE."(PRESET) button 4 times.



4

This returns the set to the normal viewing condition.

Fine Tuning

Under normal reception conditions this function is not required or necessary. However, in areas of poor reception or constant interference, a slight adjustment of the tuning may improve the picture and sound quality.

1. Select the channel which you want to try to improve, using the Programme Number Up "∧" or Down "∨" Buttons.
2. Press the "PRE". (PRESET) Button 7 times, setting the Preset menu to "FINE TUNE".
3. Press and hold the Volume Up "+" or Down "–" Button until a clear picture is received. The "■" symbol appears to the left of the Programme Number. After fine tuning has been adjusted. This symbol tells you that the set's Automatic Fine Tuning has been disabled for that Programme Numbers.
4. Press the "PRE". (PRESET) Button twice, to return the set to the normal viewing condition.

How to Cancel the Fine Tuning Function

1. Select the "AFC OFF" Programme Number which you want to return to Automatic Frequency Control (cancel the manual fine tuning). "AFC OFF" Programme Numbers are indicated to you by the "■" symbol to the left of the Programme Numbers in the On–Screen–Display
2. Press the "PRE". (PRESET) Button 4 times, setting the Preset menu to "MANUAL TUNE".
3. Press the Volume Up "+" or Down "–" Button, briefly. The best tuning position is automatically memorized. (In other words, manually tune away from the transmission, and then back to it.)
4. Press the "PRE". (PRESET) Button 5 times, to return the set to the normal viewing condition.

Programme Number Skip

It is possible to step Programme Numbers on which no TV station are tuned appearing on the screen. The function is only effective when selecting Programme Numbers by pressing the Programme Number Up or Down Buttons either on the TV set or the Remote Control..

1. Press the "PRE."(PRESET) Button 8 times, setting the Preset menu to "SKIP".
2. Select a programme Number you want to skip, by pressing the Programme Number Up "∧ "or Down "∨" Buttons.
3. Press the Volume Up "+" or Down "–" Button. The displayed "OFF" condition changes to "ON"
4. Repeat Steps 2 and 3 for the remaining Programme Number for which the Skip function is desired.
5. After Skip operation is completed, press the "PRE."(PRESET) Button (once) to return the set to the normal viewing condition.

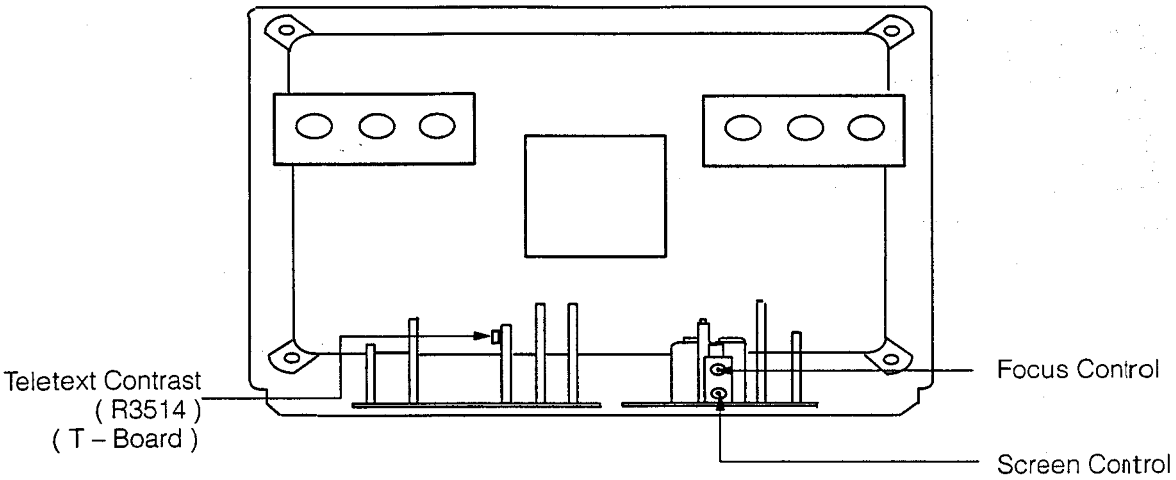
How to Cancel the Skip Function

1. Press the "PRE."(PRESET) Button 8 times, setting the Preset menu to "SKIP".
2. Select the skipped programme Number, by pressing the Programme Number Up "∧"or Down "∨" Buttons.
3. Press the Volume Up "+" or Down "–" Button. The displayed "ON" condition changes to "OFF
4. Repeat Steps 2 and 3, if you wish to cancel the Skip function on any other Programme Number.
5. After Skip Cancel operation is completed, press the "PRE."(PRESET) Button (once) to return the set to the normal viewing condition.

Location of Controls and Circuit Boards

Location of Controls

< Back View >


Teletext Contrast
(R3514)
(T – Board)
Focus Control
Screen Control

Location and Function name of Circuit Boards

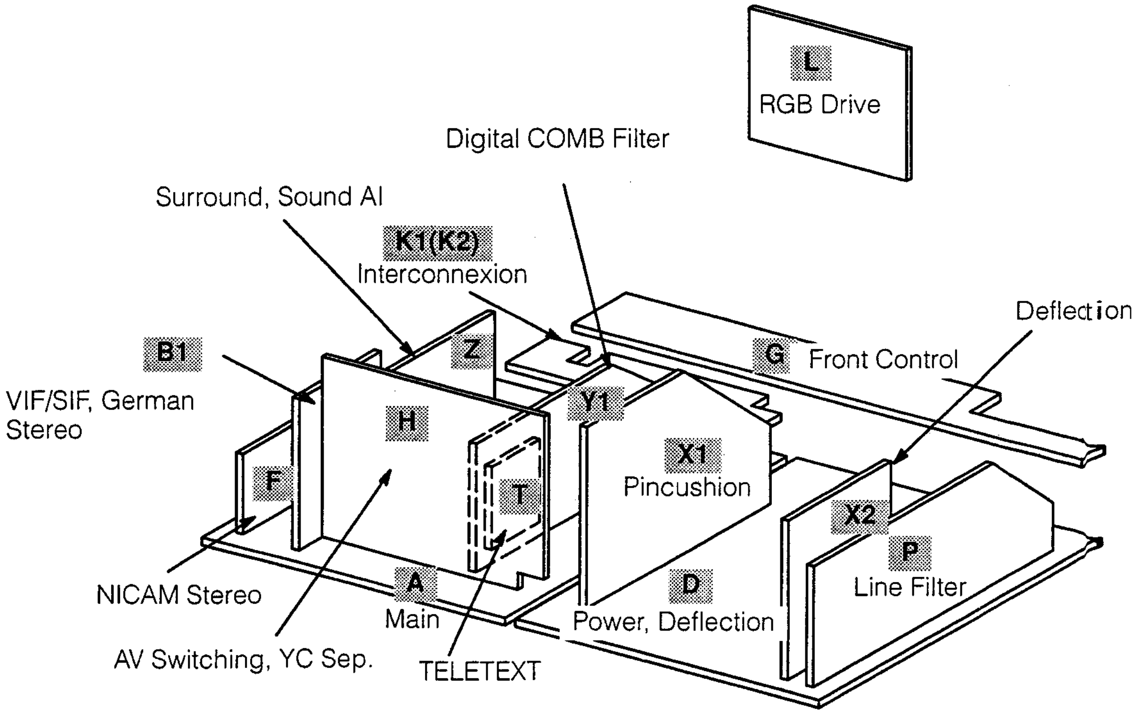

L
RGB Drive
Digital COMB Filter
Surround, Sound AI
K1(K2)
Interconnexion
Deflection
Z
G
Front Control
B1
VIF/SIF, German
Stereo
H
Y1
X1
Pincushion
F
T
X2
P
Line Filter
A
Main
D
Power, Deflection
NICAM Stereo
AV Switching, YC Sep.
TELETEXT

Fig. 4

Service Hints

How to move chassis into service position

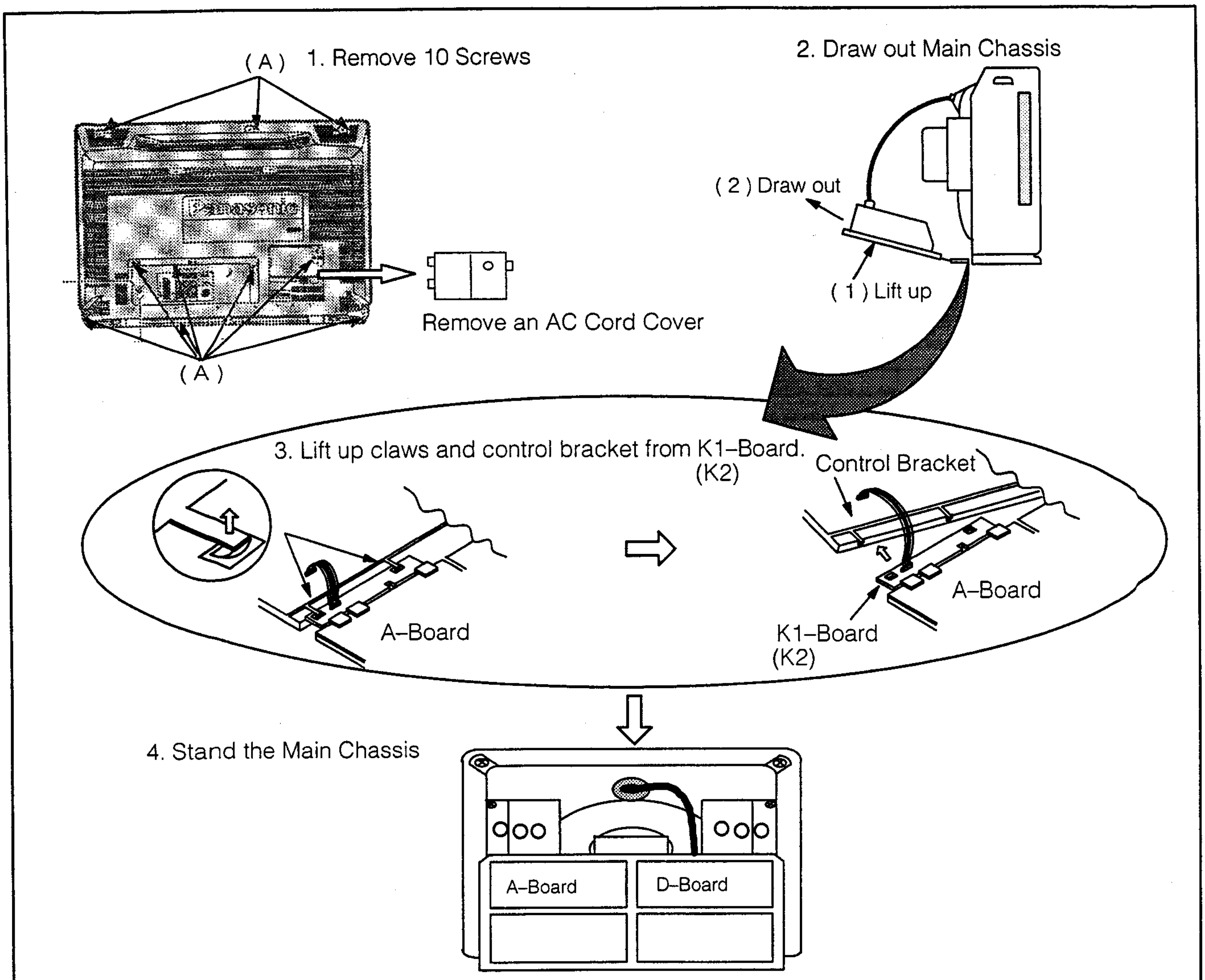

(A) 1. Remove 10 Screws
2. Draw out Main Chassis
(2) Draw out
(1) Lift up
Remove an AC Cord Cover
(A)
3. Lift up claws and control bracket from K1–Board.
(K2)
Control Bracket
A–Board
K1–Board
(K2)
A–Board
4. Stand the Main Chassis
A–Board
D–Board

Fig. 5

(K2) : for TX-24WG10X

How to remove G–Board from Control Bracket

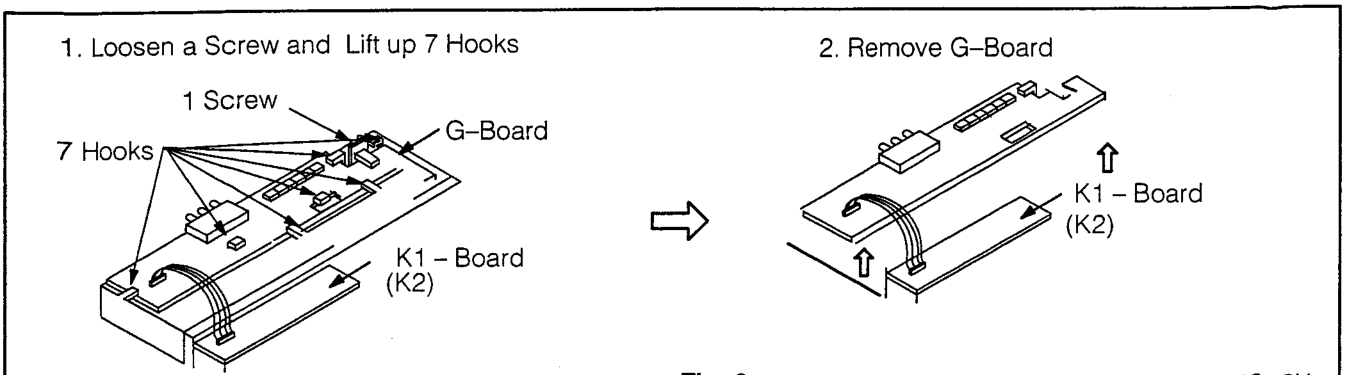

1. Loosen a Screw and Lift up 7 Hooks
1 Screw
7 Hooks
G–Board
K1 – Board
(K2)
2. Remove G–Board
K1 – Board
(K2)

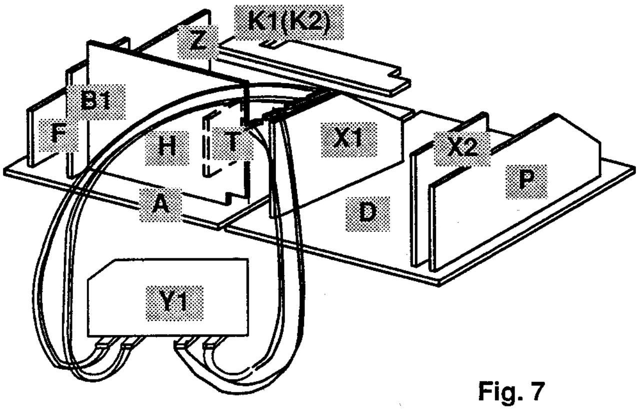
Fig. 6

(K2) : for TX-24WG10X

Service Position for B1 / Y1 / X1 / T / F–Board

Connect extension cables between individual circuit board and A–Board or D–Board as shown in **Fig. 7** .

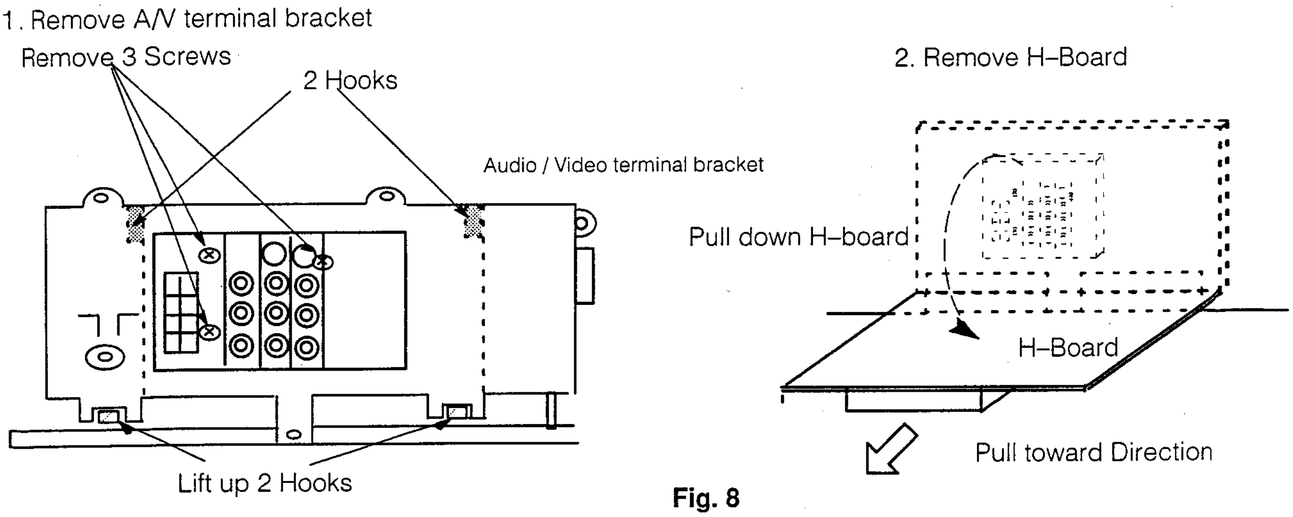
Note : Extension cable kit (4 pieces of 8 pin cables) is supplied as service fixtures and tools for M16M / M16S / M17 chassis (Part No. TZS709010).



K1(K2)
Z
B1
F
H
T
X1
X2
P
A
D
Y1

Fig. 7

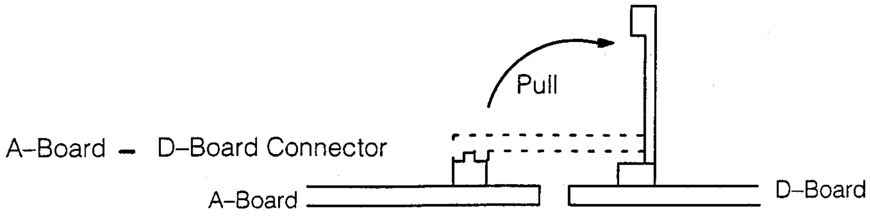
How to remove H – Board



1. Remove A/V terminal bracket
Remove 3 Screws
2 Hooks
Audio / Video terminal bracket
Lift up 2 Hooks
2. Remove H–Board
Pull down H–board
H–Board
Pull toward Direction

Fig. 8

How to disconnect A–Board / D–Board connector



Pull
A–Board – D–Board Connector
A–Board
D–Board

Fig. 9

Special Servicing Procedure

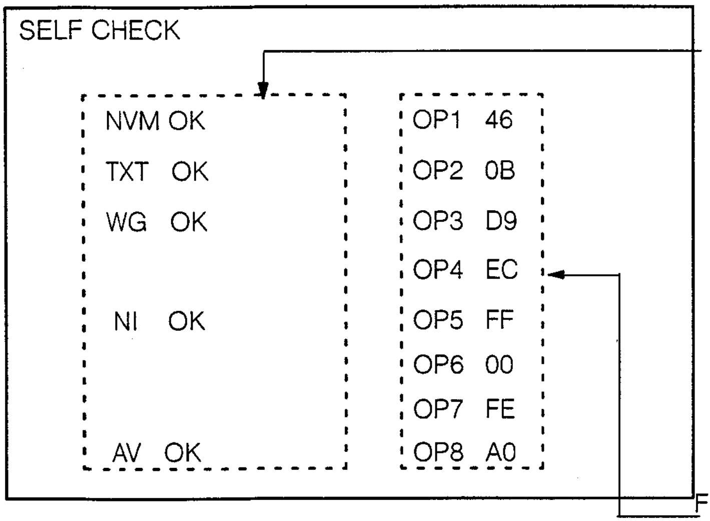
1. Self Check Function

SELF CHECK is used to automatically check the Bus lines and Hexadecimal code of the TV set.
Contents of the Self Check is as follows.
1. Confirmation result for IC function
2. Option code.

Procedure

1. Simultaneously push the OFF TIMER button [⏱] on the remote control and the VOLUME DOWN button [–] on the TV set.
2. The TV enters the self–check mode and the result are displayed on the screen (as shown below in **Fig. 10**). Please note that the programme number will be changed to position " 1 " and "FULL" Mode automatically.
3. Press any key to clear the self–check mode and return to the normal state.

On–Screen for SELF–CHECK mode



Check result of IC
" OK " → Normal
" – – " → Abnormal
(Check IC or its nearby components)

NVM	:	Memory	(IC1211 / A–Board)
TXT	:	Teletext MPU	(IC3507 / T–Board)
WG	:	German Stereo	(IC2201 / B–Board)
NI	:	NICAM Decoder	(IC2002 / F–Board)
AV	:	AV Switch	(IC3001 / H–Board)

Functional setting check of Option Code.
The numbers are displayed in hexadecimal.

Note : Option Code data on the screen is fixed depened on each model.

Fig. 10

2. How to replace memory IC (IC1211)

1. Many data which control circuit on the TV set are memorized in Memory IC.
   If the memory IC will be replaced, perform each adjustment and setting by taking the following procedure.

   Note : Memory IC which are supplied through spare parts route have not memorized these data.

2. **Automatic Initialization Procedure:**
   The initial data will be memorized in memory IC from MPU automatically so that the TV set operates basic function and then TV goes "Market Mode".

   1) Contact a jumper wire between TPA14(pin 3 of IC1213) and ground.
   2) Turn the TV set on. Memory IC is initialized and TV goes "Market Mode".
   3) Remove a jumper wire.

Market Mode Function

1. Market Mode Function

Outline : MPU controls the functions switching for each ICs through IIC bus in M17W chassis. The following setting and adjustment can be adjusted by remote control in Market Mode. As for M17W chassis, the contents of option setting are memorized in memory IC (IC1211). In addition to normal picture and sound level setting, the data for sound AI / surround effect are also memorized in memory IC.

1. Selection of Market Mode

Adjust VOLUME " zero " and set OFF TIMER Button[⏲].
Then, simultaneously press the RECALL[▢]Button on the remote control and the VOLUME DOWN button [–] on the TV set. (Refer to page 4 and 5.)

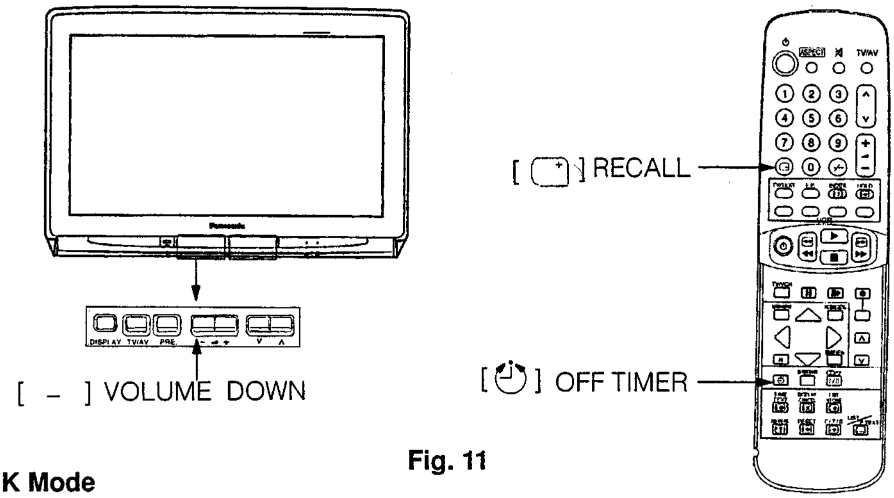
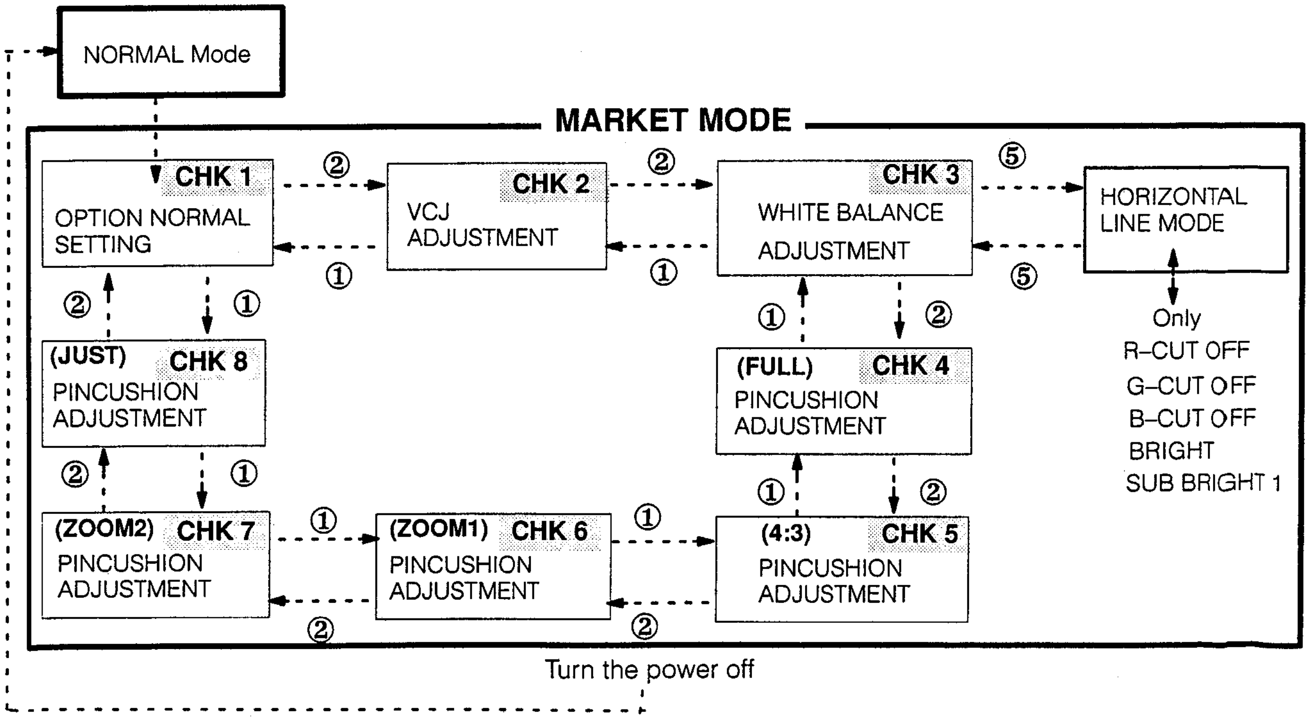

DISPLAY
TV/AV
PRE
[–] VOLUME DOWN
[▢] RECALL
[⏲] OFF TIMER
ASPECT
TV/AV

Fig. 11

2. Selection of CHK Mode

Cursor moves each CHK mode by pressing " ① " or " ② " of 10 key button for REMOTE CONTROL.


NORMAL Mode
MARKET MODE
CHK 1
OPTION NORMAL SETTING
CHK 2
VCJ ADJUSTMENT
CHK 3
WHITE BALANCE ADJUSTMENT
HORIZONTAL LINE MODE
Only
R–CUT OFF
G–CUT OFF
B–CUT OFF
BRIGHT
SUB BRIGHT 1
(JUST) CHK 8
PINCUSHION ADJUSTMENT
(FULL) CHK 4
PINCUSHION ADJUSTMENT
(ZOOM2) CHK 7
PINCUSHION ADJUSTMENT
(ZOOM1) CHK 6
PINCUSHION ADJUSTMENT
(4:3) CHK 5
PINCUSHION ADJUSTMENT
①
②
⑤
Turn the power off

3. Normal TV Operation

TV can be operate as a normal mode except VOL.UP/DOWN button and direct programme selection button by remote control even in MARKET MODE.

2. Option Normal Setting Mode (CHK 1)

1. There are 4 screens (4 items) in option / normal setting mode as follows Data and level of each item are fixed depended on the model. If the memory IC (IC1211) is replaced, optional data and normal level should be re–memorized. To change the screen (item) in CHK 1 mode, press " 3 " or " 4 " of 10 key button. Then Date and Level changes by pressing Volume "+" or "–" button.
2. In Option mode, if changed the number, the character colour will be changed from green to red, Press " 0 " of 10 key button to memorize and the colour changed to Green.

• OPTION SETTING

OPTION		CHK 1
OP1	46	
OP2	0B	
OP3	D9	
OP4	EC	
OP5	FF	
OP6	00	
OP7	FE	
OP8	A0	

Press ③ of 10key button ⇦

➡ Press ④ of 10key button

• PICTURE MENU 1 & SOUND MENU 1

FACTORY NORMAL 1		CHK 1
COLOUR	32	
NTSC–TINT	32	
BRIGHT	32	
CONTRAST	63	
SHARPNESS	32	
BASS	46	
TREBLE	48	

Press ③ of 10key button ⇩

⬆ Press ④ of 10key button

Press ④ of 10key button ⬇

⇧ Press ③ of 10key button

• SOUND AI / SURROUND EFFECT.

FACTORY NORMAL 3		CHK 1
SOUND AI 1	30	
SOUND AI 2	60	
SOUND AI 3	240	
SOUND AI 4	36	
EFFECT	136	
MIX	128	
XBS BASS	40	

Press ④ of 10key button ⬅

⇨ Press ③ of 10key button

• PICTURE MENU 2 & SOUND MENU 2

FACTORY NORMAL 2		CHK 1
COLOUR	32	
NTSC–TINT	32	
BRIGHT	32	
CONTRAST	55	
SHARPNESS	32	
BASS	32	
TREBLE	32	

3. VCJ Adjustment Mode(CHK2)

To change the screen (item) in CHK mode, press " 3 " or " 4 " of 10 key button. Then Date and Level changes by pressing Volume "+" or "–" button.

No.	Display	Adj. Range	Average Data CHK 2	Items
1	RF AGC	0 ~ 127	71	RF AGC (For main Picture)
2	P / N CLR -OUT	0 ~ 1	0	PAL / NTSC Colour Output
3	CONTRAST	0 ~ 63	–	Contrast (the same as user control)
4	SUB CONTRAST 1	0 ~ 63	32	Sub Contrast (for FULL mode in PAL)
5	SUB CONTRAST 2	0 ~ 63	32	Sub Contrast (for 4:3 mode in PAL)
6	COLOUR	0 ~ 63	–	Colour (the same as user control)
7	SUB COLOUR 1	0 ~ 63	27	Sub Colour (for FULL mode)
8	SUB COLOUR 2	0 ~ 63	27	Sub Colour (for 4:3 mode)
9	NTSC TINT	0 ~ 63	–	NTSC Tint (the same as user control)
10	SUB NTSC TINT 1	0 ~ 63	25	Sub NTSC Tint (for wide mode)
11	SUB NTSC TINT 2	0 ~ 63	25	Sub NTSC Tint (for 4:3 mode)
12	BELL FO	0 ~ 7	4	Bell Filter for SECAM
13	SECAM CLR–OUT	0 ~ 3	2	SECAM Colour Out
14	SECAM R–Y OUT	0 ~ 15	10	SECAM R–Y Black level
15	SECAM B–Y OUT	0 ~ 15	10	SECAM B–Y Black level

4. White Balance Adjustment Mode (CHK3)

To change the screen (item) in CHK mode, press " 3 " or " 4 " of 10 key button. Then Date and Level changes by pressing Volume "+" or "–" button.

No.	Display	Adj. Range	Average Data CHK 3	Items
1	R- CUT OFF	0 ~ 1023	298	Red Cut off
2	G- CUT OFF	0 ~ 1023	527	Green Cut off
3	B- CUT OFF	0 ~ 1023	404	Blue Cut off
4	BRIGHT	0 ~ 63	82	Bright (the same as user control)
5	SUB BRIGHT 1	0 ~ 127	82	Sub Bright (for wide mode)
6	SUB BRIGHT 2	0 ~ 127	–	Sub Bright (for 4:3 mode)
7	R- DRIVE	0 ~ 255	107	Red Drive
8	B- DRIVE	0 ~ 255	103	Blue Drive
9	SECAM R-Y OUT,	0 ~ 15	–	SECAM R-Y Black level
10	SECAM B-Y OUT	0 ~ 15	–	SECAM B-Y Black level

Note: Picture will be changed to the one horizontal line by pressing " 5 " of 10 key button in the item " ▨ ". One horizontal line is the same as a picture at " SERVICE " position of SERVICE SW in the previous chassis.

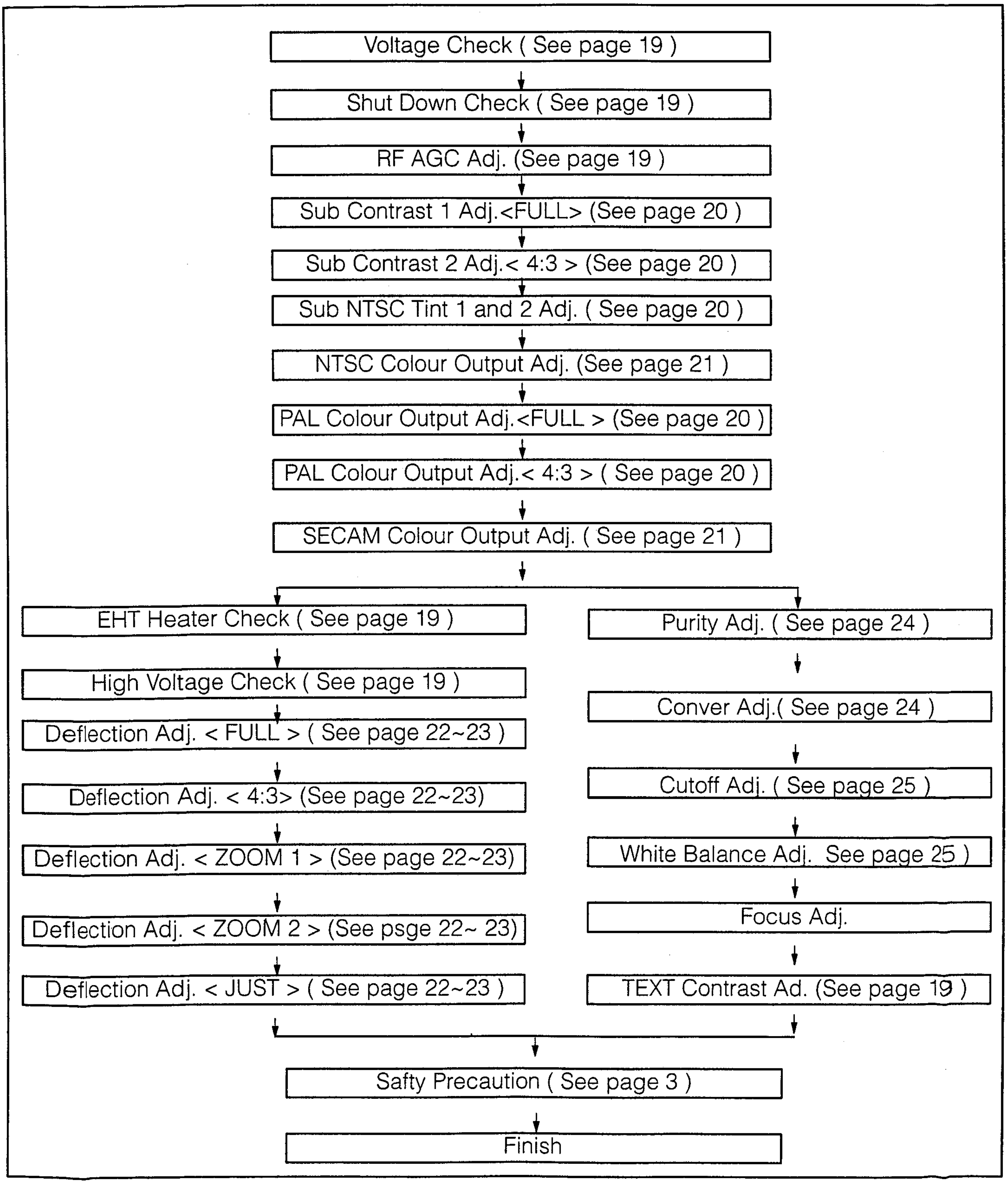
5. Pincushion Adjustment Mode (CHK 4 ~ CHK8)

Note : (NO.) is fixed data for below table.
" – " mark means no adjustment.

No.	Display	ADJ. Range	Average Data & Fixed data										Items
			CHK4 FULL	CHK5 4:3	CHK6 Zoom1	CHK7 Zoom2	CHK8 JUST	CHK4 FULL	CHK5 4:3	CHK6 Zoom1	CHK7 Zoom2	CHK8 JUST	
			TX-24WG10X					TX-28WG10X					
1	H-WIDTH	0 ~ 63	30	13	32	31	50	34	14	34	34	52	Horizontal Width
2	EW-PARABO	0 ~ 63	18	19	29	24	29	24	25	36	32	37	EW – Parabola
3	EW-CORNER	0 ~ 15	(0)	(0)	(0)	(0)	(10)	(0)	(0)	(0)	(0)	(10)	EW – Corner
4	50 Hz V – HEIGHT	0 ~127	46	45	69	60	57	42	41	67	56	55	Vertical Height (50Hz)
5	60 Hz V – HEIGHT	0 ~127	46	45	67	60	57	42	41	67	58	55	Vertical Height (60Hz)
6	V – LINEAR	0 ~ 31	29	19	19	19	19	23	23	22	22	22	Vertical Linearity
7	50 Hz V – S – CORREC	0 ~ 31	20	20	20	20	(27)	15	15	13	12	(27)	Vertical S curve Correction (50Hz)
8	60 Hz V – S – CORREC	0 ~ 31	19	19	19	19	(27)	16	16	16	16	(27)	Vertical S curve Correction (60Hz)
16	SUB SCREEN	0 ~ 63	21	–	–	–	–	30	–	–	–	–	Horizontal Center
9	V – CENTER	0 ~ 7	(4)	(4)	(4)	(7)	(4)	(4)	(4)	(4)	(7)	(4)	Vertical Center
10	V – I – CORREC	0 ~ 15	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	Vertical I Correction
11	TRAPEZOID	0 ~ 63	(32)	(32)	(32)	(32)	(32)	(32)	(32)	(32)	(32)	(32)	Trapezoid
12	V – CORRECT	0 ~ 15	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	(15)	Vertical Correction
13	H – CORRECT	0 ~ 15	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	(5)	Horizontal Correction
17	50Hz H-BLK POS	0 ~ 63	–	37	–	–	–	–	33	–	–	–	Blanking Position(50Hz)
18	60Hz H-BLK POS	0 ~ 63	–	37	–	–	–	–	30	–	–	–	Blanking position(60Hz)
14	50 Hz H CENTER	0~ 31	14	15	12	15	15	11	12	10	10	12	Horizontal Correction (50Hz)
15	60 Hz H CENTER	0 ~ 31	16	14	16	16	15	14	16	13	13	14	Horizontal Correction (60Hz)

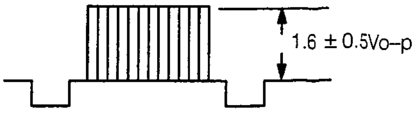
Adjustment

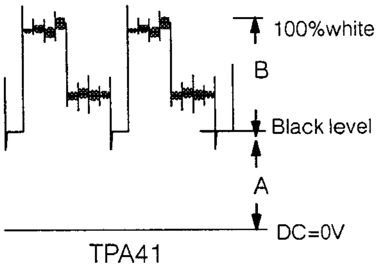
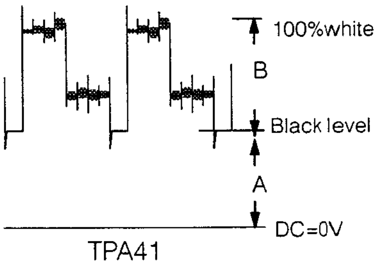
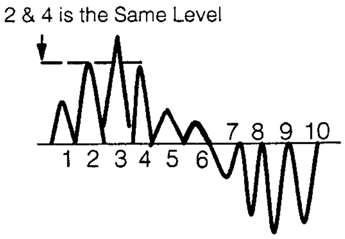
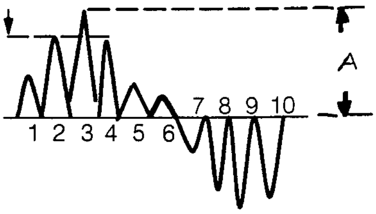
1. Flow Chart of Electric Adjustment

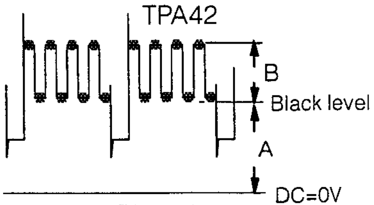
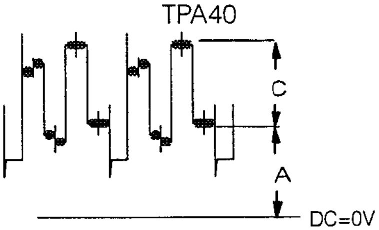
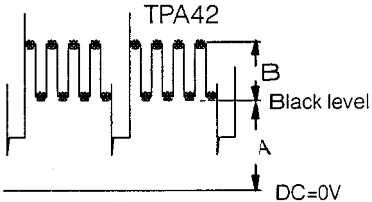
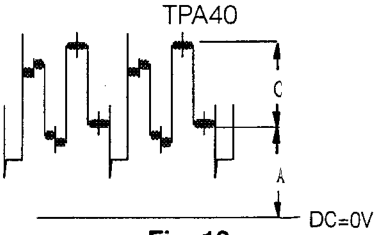
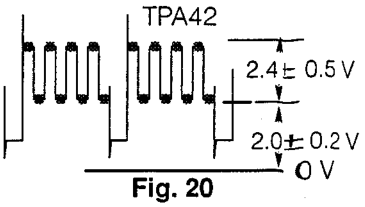
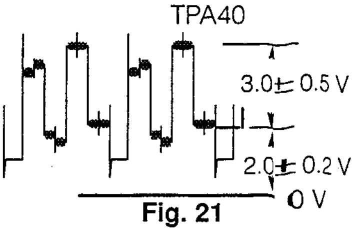

Voltage Check (See page 19)
Shut Down Check (See page 19)
RF AGC Adj. (See page 19)
Sub Contrast 1 Adj.<FULL> (See page 20)
Sub Contrast 2 Adj.< 4:3 > (See page 20)
Sub NTSC Tint 1 and 2 Adj. (See page 20)
NTSC Colour Output Adj. (See page 21)
PAL Colour Output Adj.<FULL > (See page 20)
PAL Colour Output Adj.< 4:3 > (See page 20)
SECAM Colour Output Adj. (See page 21)
EHT Heater Check (See page 19)
High Voltage Check (See page 19)
Deflection Adj. < FULL > (See page 22~23)
Deflection Adj. < 4:3> (See page 22~23)
Deflection Adj. < ZOOM 1 > (See page 22~23)
Deflection Adj. < ZOOM 2 > (See psge 22~ 23)
Deflection Adj. < JUST > (See page 22~23)
Purity Adj. (See page 24)
Conver Adj.(See page 24)
Cutoff Adj. (See page 25)
White Balance Adj. See page 25)
Focus Adj.
TEXT Contrast Ad. (See page 19)
Safty Precaution (See page 3)
Finish

2. Electrical Adjustments

Item / Preparation	Adjustment Procedure
B Voltage 1. Operate the TV set. 2. Set Beam to ZERO beam : (MARKET MODE CHK 2 and 3) Sub Contrast 2 . . . . minimum Bright . . . . minimum Sub Bright 2 . . . . minimum	1. Confirm that the indicated test points for the specified voltage: TPD 9 : 34.5 ± 1.0 V TPD 10 : 12.0 ± 1.0 V TPD 11 : 139.1± 2.0 V TPA 3 : 5.0 ± 0.5 V TPD35 : 10.7 ± 1.0 V(POWER ON) 10.2 ± 1.0 V(STAND BY) TPD 13 : 5.0 ± 0.5 V TPD 14 : 9.0 ± 0.5 V TPD 22 : 220.0 ± 10.0 V
High Voltage 1. Operate the TV set.. 2. Set controls : (MARKET MODE CHK 2) Set Beam to ZERO beam : Screen VR . . . . minimum Contrast . . . . minimum 3. Connect a DC voltage meter to TPD11 and confirm the voltage is 139.1 ± 2V.	1. Connect a high voltage meter (Electrostatic Type) to an anode of the picture tube. 2. Confirm that the high voltage is within the range of 31.0 (+ 1.0, –1.0) kV.
Shut – down Confirmation 1. Operate the TV set. and Set TV 0 Beam. 2. Connect a DC Voltage meter to TPD19 and confirm the voltage at TPD19 is 21.0V.	1. Supply +20.1V at TPD19 by DC power supply and make sure that SHUT DOWN does not operate. 2. Supply +22.2V at TPD19 and make sure that SHUT DOWN operates.
RF AGC 1. Receive a colour bar pattern. 2. Set the input level to 61 ± 2 dB. (75 Ω opened) 3. Connect an oscilloscope to TPA12 with DC mode.	1. Set the TV to MARKET MODE CHK2 2. Set RF AGC Control such as to procedure a snowy picture. 3. Set RF AGC Control at the point just before the voltage at TPA12 begins to drop. 4. Increase the input level by 2 dB and confirm that the voltage changes.

Item / Preparation	Adjustment Procedure	Waveform
Text Contrast 1. Receive TeleText signal. 2. Aspect set to FULL mode. 3. Connect a short jumper between TPD17 and TPD12. 4. Connect an oscilloscope to TPA41.	1. Adjust R3514 control : 1.6 ± 0.5 V	 Fig. 11

Item / Preparation	Adjustment Procedure	Waveform
Sub Contrast 1 (FULL Mode) 1. Receive a colour bar pattern. 2. Aspect set to FULL mode. 3. Connect an oscilloscope to TPA41. 4. Connect a short jumper between TPD17 and TPD12. 5. Select "STANDARD" mode using the picture menu button and normalize by pressing the "(N)" button.	1. Set the TV to MARKET MODE CHK2, Sub CONTRAST 1 Adj. 2. Adjust A by Sub Bright 1 Control : A=2.0 (+ 0.2, − 0.2) V 3. Adjust B by Sub Contrast 1 control. B=2.8 (+ 0.1, − 0.1) V model : TX-24WG10X B=3.1 (+ 0.1, − 0.1) V model : TX-28WG10X (Waveform should not be saturated.)	 Fig. 12
Sub Contrast 2 (4:3 Mode) 1. Receive a colour bar pattern. 2. Aspect set to 4 : 3 mode. 3. Connect an oscilloscope to TPA41. 4. Connect a short jumper between TPD17 and TPD12. 5. Select "STANDARD" mode using the picture menu button and normalize by pressing the "(N)" button.	1. Set the TV to MARKET MODE CHK2, Sub CONTRAST 2 Adj. 2. Adjust A by Sub Bright 2 control : A=2.0 (+ 0.2, − 0.2) V 3. Adjust B by Sub Contrast 2 control. B=2.4 (+ 0.1, − 0.1) V model : TX-24WG10X B=2.5 (+ 0.1, − 0.1) V model : TX-28WG10X (Waveform should not be saturated.)	 Fig. 13
Sub NTSC TINT 1&2 Adjustment 1. Apply NTSC 3.58MHz rainbow pattern. 2. Connect an oscilloscope to TPA37. 3. Connect a short jumper between TPD17 and TPD12. 4. Select "STANDARD" mode using the picture menu button and normalize by pressing the "(N)" button.	1. Set the TV to MARKET MODE CHK2, Sub NTSC TINT 1 Adj. 2. Adjust Sub tint 1, so that level of No. 2, No. 3, No4. become **Fig. 14** . 3. Set the TV to MARKET MODE CHK2, Sub NTSC TINT 2 Adj. 4. Adjust Sub Tint 2, so that data is same as sub tint 1 data.	 Fig. 14
M–NTSC Colour Output 1. Apply NTSC rainbow pattern. 2. Connect an oscilloscope to TPA40. 3. Connect a short jumper between TPD17 and TPD12. 4. Select "STANDARD" mode using the picture menu button and normalize by pressing the "(N)" button.	1. Confirm that the amplitude of waveform A=1.2 ± 0.5 V_{0-p} model : TX-24WG10X A=1.3 ± 0.5 V_{0-p} model : TX-28WG10X	 Fig. 15

Item / Preparation	Adjustment Procedure	Waveform
PAL Colour Output 1 (Full Mode) 1. Receive PAL colour bar pattern. 2. Aspect set to FULL mode. 3. Connect an oscilloscope to TPA42. 4. Connect a short jumper between TPD17 and TPD12. 5. Select "STANDARD" mode using the picture menu button and normalize by pressing the "(N)" button.	1. Set the TV to MARKET MODE CHK2. 2. PAL/NTSC Colour Output data set to 0. 3. Adjust A by Sub Bright 1 Control **Fig. 16** : A=2.0 (+ 0.2, – 0.2) V 4. Adjust B by Sub Colour 1 control. B=2.6 (+ 0.1, – 0.2) V model : TX–24WG10X B=2.8 (+ 0.1, – 0.2) V model : TX–28WG10X 5. Connect the oscilloscope to TPA40. 6. Confirm that the amplitude of wave form C is**Fig. 17** . : C=3.3 ± 0.5 V model : TX–24WG10X C=3.5 ± 0.5 V model : TX–28WG10X	 **Fig. 16**  **Fig. 17**
PAL Colour Output 2 (4:3 Mode) 1. Receive PAL colour bar pattern. 2. Aspect set to 4:3 mode. 3. Connect an oscilloscope to TPA42. 4. Connect a short jumper between TPD17 and TPD12. 5. Select "STANDARD" mode using the picture menu button and normalize by pressing the "(N)" button.	1. Set the TV to MARKET MODE CHK2. 2. Adjust A by Sub Bright 2 Control **Fig. 18** . : A=2.0 (+ 0.2, – 0.2) V 3. Adjust B by Sub Colour 2 control. B=2.2 (+ 0.1, – 0.2) V model : TX–24WG10X B=2.3 (+ 0.1, – 0.2) V model : TX–28WG10X 4. Connect the oscilloscope to TPA40. 5. Confirm that the amplitude of waveform C is **Fig. 19** . : C=2.6 ± 0.5 V model : TX–24WG10X C=2.8 ± 0.5 V model : TX–28WG10X	 **Fig. 18**  **Fig. 19**
SECAM Colour Output 1. Receive SECAM colour bar pattern. 2. Set the Colour System to SECAM. 3. Set the Sound System to 5.5 MHz. 4. Connect a short jumper between TPD17 and TPD12. 5. Select "STANDARD" mode using the picture menu button and normalize by pressing the "(N)" button. 6. Connect an oscilloscope to TPA42.	1. Set the TV to MARKET MODE CHK2, SECAM CLR-OUT Adj. 2. Adjust SECAM CLR – OUT control **Fig. 20** . : 2.4 ± 0.5 V 3. Connect the oscilloscope to TPA40. 4. Confirm that the waveform is as shown in **Fig. 21** .	 **Fig. 20**  **Fig. 21**

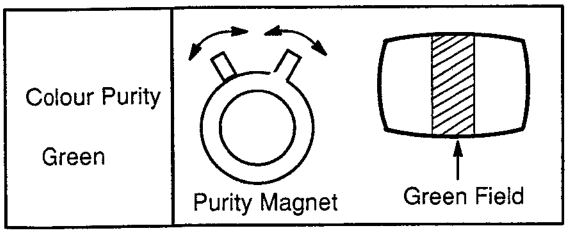
Before Colour Purity, Convergence and White Balance adjustments are attempted, V. Center, V. Height, H. Width, H. Center and Focus adjustments must be completed.

Colour Purity (MARKET MODE CHK 3)

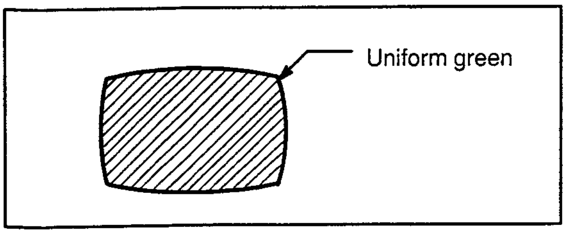
1. Set Bright and Contrast controls to their maximum positions.
2. Operate the TV set over 15 minutes.
3. Fully degauss the picture tube by using an external degaussing coil.
4. Apply a crosshatch pattern signal and adjust roughly the static convergence magnets.
5. Receive a black and white signal.
6. Select Market mode CHK 3.
7. Set CUTOFF controls as following :

   Red (R–CUTOFF) .. minimum
   Green (G–CUTOFF) .. maximum
   Blue (B–CUTOFF) .. minimum

8. Loosen a clamp screw for the deflection yoke and move the deflection yoke as close to the purity magnet as possible.
9. Adjust the purity magnet so that a vertical green field is obtained at center of the screen.


Colour Purity
Green
Purity Magnet
Green Field

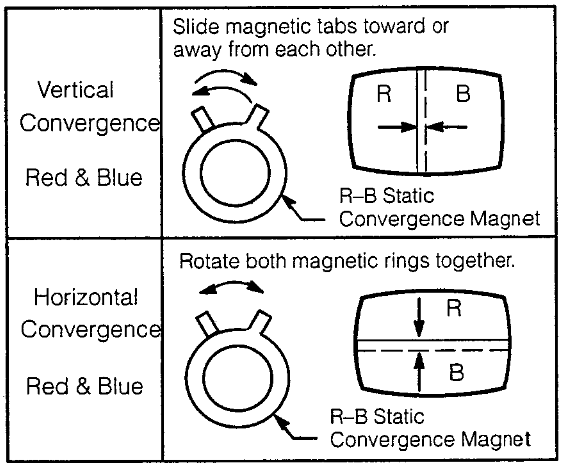
10. Slowly press the deflection yoke and set it where a uniform green field is obtained.


Uniform green

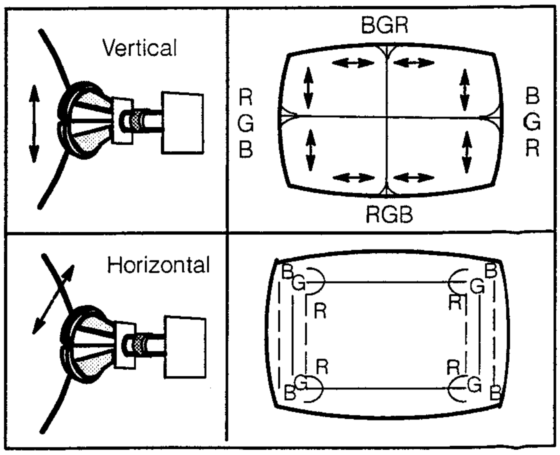
11. Adjust roughly the Low Light controls and make sure that a uniform white field is obtained.
12. Tighten the clamp screw.

Convergence (MARKET MODE CHK 3)

1. Apply a crosshatch pattern signal and set Contrast control to the maximum position.
2. Adjust Bright control to obtain a clear pattern.
3. Adjust Red and Blue line at center of the screen by rotating R–B static convergence magnet.


Vertical Convergence
Red & Blue
Slide magnetic tabs toward or away from each other.
R
B
R–B Static Convergence Magnet
Horizontal Convergence
Red & Blue
Rotate both magnetic rings together.
R
B
R–B Static Convergence Magnet

4. Adjust Red and Blue with Green line at center of the screen by rotating (RB) – G static convergence magnet.
5. Lock convergence magnets with silicone sealer.
6. Remove the DY wedges and slightly tilt the deflection yoke the vertically and horizontally to obtain the good overall convergence.


Vertical
BGR
R G B
B G R
RGB
Horizontal
B G R
R G B

7. Fix the deflection yoke by reinserting the DY wedges. **Fig. 23**
8. If purity error is found, repeat "Colour Purity" adjustment.

White Balance (MARKET MODE CHK 3)

Preparation

1. Receive a colour bar signal with colour "OFF", and operate the TV set more than 15 minutes.,
2. Set the picture menu to "STANDARD" normal and the screen control (part of FBT) to minimum.
3. Connect an oscilloscope to TPL7 with DC mode.
4. Set the TV set to enter white balance adjustment mode.

Adjustment

1. Select G–CUTOFF adjustment mode and collapse vertical scan .(Refer to page 16 item17)
2. Adjust G–CUTOFF control to become the DC=0V to video level at 190V as shown in **Fig. 22**

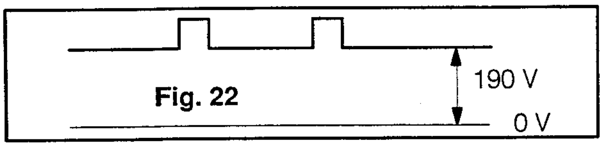
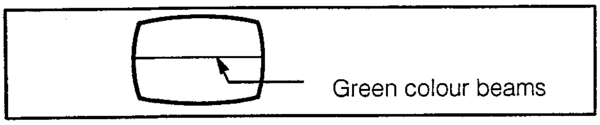
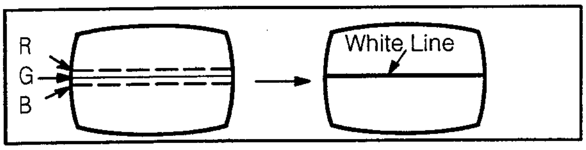


Fig. 22

3. Slowly turn the screen control clockwise until a green colour horizontal line appears on the picture tube. This is the setting point for the screen control,
Note that do not adjust the G–CUTOFF setting in the following procedure.

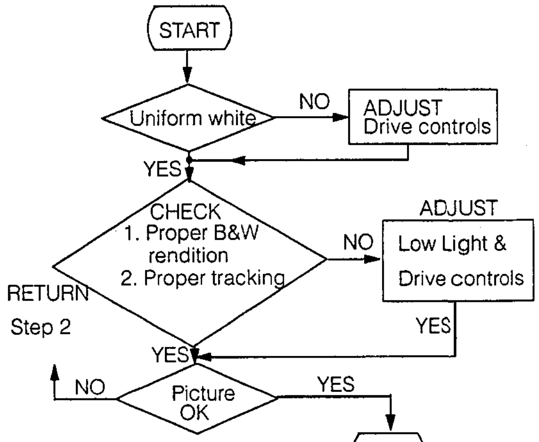

Green colour beams

4. Adjust the remained R and B–CUTOFF controls so as to get a white horizontal line on the screen.


R
G
B
White Line

5. Return to full field SCAN.
6. Set CNR(Colour Noise Reduction) to " OFF ".
7. Adjust the R–Drive and B–Drive controls as to obtain uniform white on the white bar of the greyscale pattern.
8. Confirm correct B/W rendition and greyscale tracking or repeat CUTOFF and drive control set up.
9. Set CNR(Colour Noise Reduction) to "ON ".
10. Set the data of SUB R–CUTOFF and SUB B–CUTOFF to128 DAC.
11. Adjust the SUB R–CUTOFF and SUB B–CUTOFF controls as to obtain uniform correct B/W rendition and greyscale traking.

Note: Write down the original value for each address adjustment before adjusting anything.


START
Uniform white
NO
ADJUST Drive controls
YES
CHECK
1. Proper B&W rendition
2. Proper tracking
NO
ADJUST
Low Light & Drive controls
YES
RETURN Step 2
YES
NO
Picture OK
YES
END

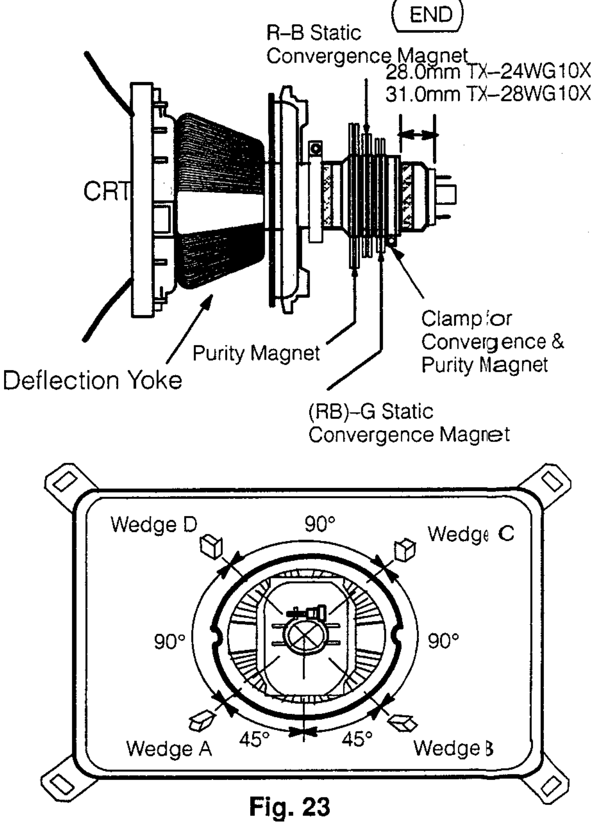


Fig. 23
R–B Static Convergence Magnet
28.0mm TX–24WG10X
31.0mm TX–28WG10X
CRT
Clamp for Convergence & Purity Magnet
Purity Magnet
Deflection Yoke
(RB)–G Static Convergence Magnet
Wedge D
90°
Wedge C
90°
90°
Wedge A
45°
45°
Wedge B

12. Wedge A shown in **Fig. 23** should be fixed within a range of 45 ° to the left of the vertical line as shown.
13. After inserting wedge A, insert wedges B, C and D. The wedges should be set 90° apart from each other.
14. Be certain that the four wedges are firmly fixed and the Deflection Yoke is tightly clamped in place. Otherwise the Deflection Yoke may shift its position and cause a loss of convergence and purity.

3. Deflection Adjustment(CHK4, 5, 6, 7and 8 Mode)

Preparation

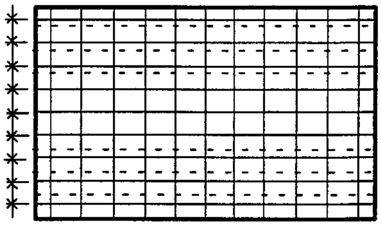
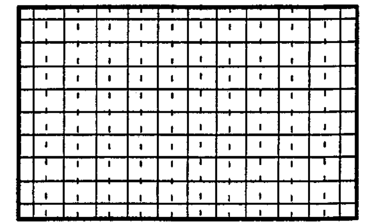
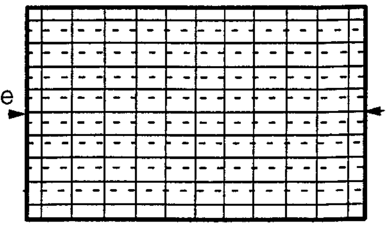
1.Receive a cross hatch pattern.
2.Select "STANDARD" mode using the picture menu button and normalize by pushing the "(N)" button.
3.Set the TV Market Mode CHK4(FULL Mode)(Deflection Adjustment is performed with aspect FULL Mode first.)

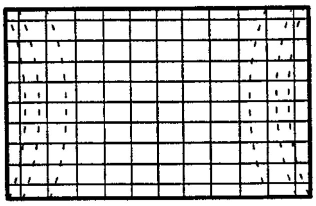
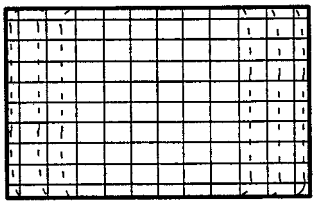
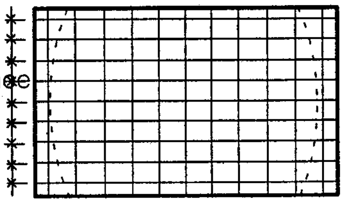
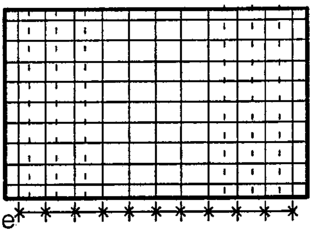
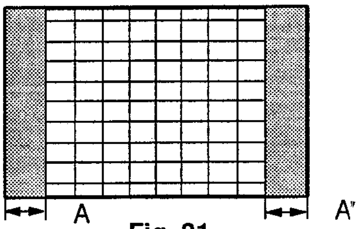
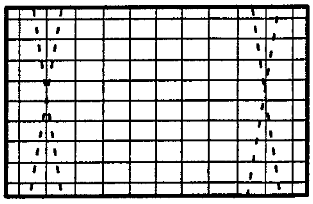
Adjustment item / Aspect Mode	FULL	4:3	ZOOM1	ZOOM2	JUST
H-WIDTH	○	○	○	○	○
60Hz H-CENTER	○	○	▲	▲	▲
50Hz H-CENTER	○	○	▲	▲	▲
H-CORRECT	(5)	(5)	(5)	(5)	(5)
V-CORRECT	(15)	(15)	(15)	(15)	(15)
TRAPEZOID	(32)	(32)	(32)	(32)	(32)
V-I-CORRECT	(15)	(15)	(15)	(15)	(15)
V-CENTER	(4)	(4)	(4)	(7)	(4)
SUB SCREEN	○	None	None	None	None
60Hz H-BLANKING	None	○	None	None	None
50Hz H-BLANKING	None	○	None	None	None
60Hz V-S-CORRECT	○	▲	▲	▲	(27)
50Hz V-S-CORRECT	○	▲	▲	▲	(27)
V-LINEAR	○	▲	▲	▲	▲
60Hz V-HEIGHT	○	○	○	○	○
50Hz V-HEIGHT	○	○	○	○	○
EW-CORNER	(0)	(0)	(0)	(0)	○
EW-PARABO	○	○	○	○	○

Note :

1.Mark " ○ " means that Adjustment is necessary.
2. Mark "▲ " means that Adj. Data is same as FULL mode.
3.(No.) means fixed data.

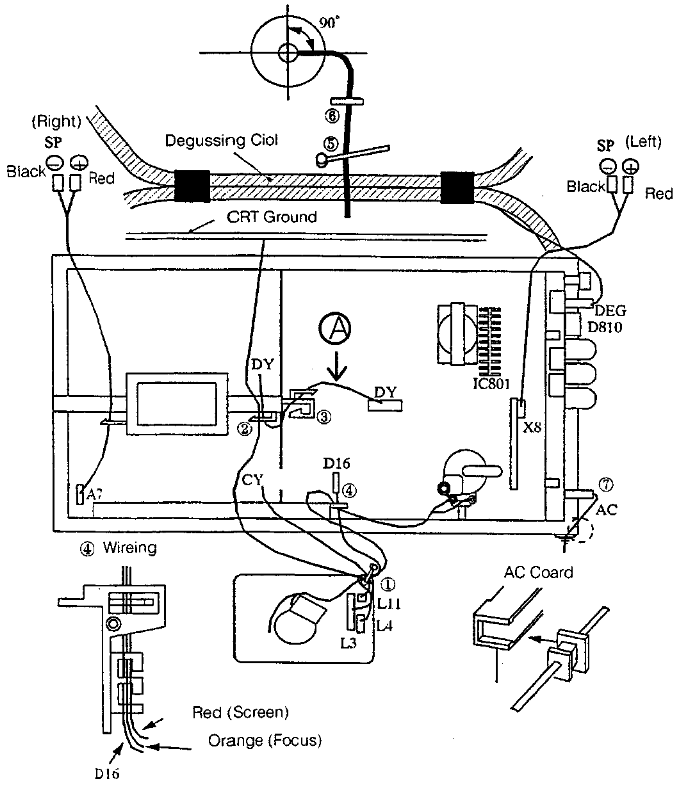
Adjustment

Item / Adjustment	Motion
V-Height 1.Adjust V-Height by pressing VOLUME UP/DOWN Button on Remote Control, so that each Horizontal line is the same distance.	Each line is the same distance.  Fig. 24
H-Center 2.Adjust H-Center by pressing VOLUME UP/DOWN Button on Remote Control, so that the distance between both side vertical line and CRT edge is same. (A=A")	A + A"  Fig. 25
Sub Screen 3.Adjust Sub Screen by pressing VOLUME UP/DOWN Button on Remote Control, so that the Patter is center of the picture.	Center of the picture  Fig. 26

Item / Adjustment	Picture Movement
EW–Parabo 4. Adjust EW–Parabo by pressing VOLUME UP/DOWN Botton on Remote Control, so that both of side vertical lines are straight.	 Fig. 27
V–Linear 5. Adjust V–Linear by pressing VOLUME UP/DOWN Button on Remote Control, so that both of side of the top and bottom vertical lines are straight.	 Fig. 28
V–I– Correct 6. Adjust V–I–Correct by pressing VOLUME UP/DOWN Button on Remote Control, so that each Horizontal line is the same distance, and vertical lines are straight.	Each distance is the same  Fig. 29
H–Width 7. Adjust H–Width by pressing VOLUME UP/DOWN Button on Remote Control, so that each Vertical line is the same distance.	 Each distance is the same Fig. 30
H–Blanking 8. Adjust H–Blanking by pressing VOLUME UP/DOWN Button on Remote Control, so that both side H-Blanking line is the same distance. (A=A") TX–24WG10X 50Hz : A= 55 ± 5mm 60Hz : A= 48 ± 7mm TX–28WG10X 50Hz : A= 65 ± 5mm 60Hz :A= 60 ± 7mm	A=A"  Fig. 31
Pincushion 9. Adjust the Vertical lines of both side vertical line by TRAPEZOID control R732 on X–board.	

TX–24 / 28WG10X

Location of Lead Wiring

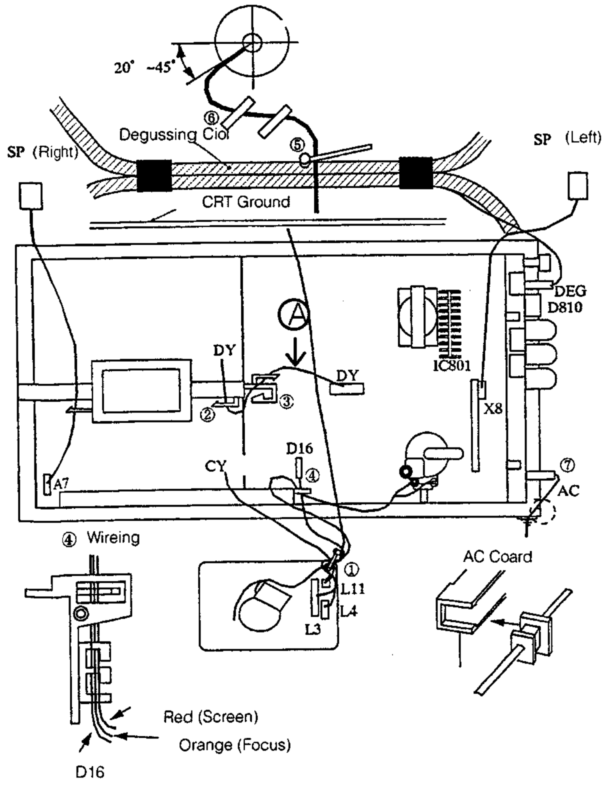

90°
⑥
⑤
(Right)
SP
Black
Red
Degussing Ciol
SP (Left)
Black
Red
CRT Ground
DEG
D810
Ⓐ
DY
DY
IC801
②
③
X8
D16
④
CY
A7
⑦
AC
④ Wireing
AC Coard
①
L11
L4
L3
Red (Screen)
Orange (Focus)
D16

TX–24WG10X

Lead wire \ Hooks	①	②	③	④	⑤	⑥	⑦
AC Coard							○
Deflection Yoke		○	○				
L11	○						
Focus Screen	○			○			
Anode					○	○	
D16	○			○			

Note :

1. Lead wires should not touch Heat Sink Plate of D810 and IC801.
2. Lead wires should kept 10mm distance from Flyback Trans.
3. Anode Lead wire should be kept 10mm from CRT, SP. Box, Rear Cover, DY, CRT Board., etc.
4. Keep tension as A point.
5. L3 and L4 lead wire should be wired outside L11.

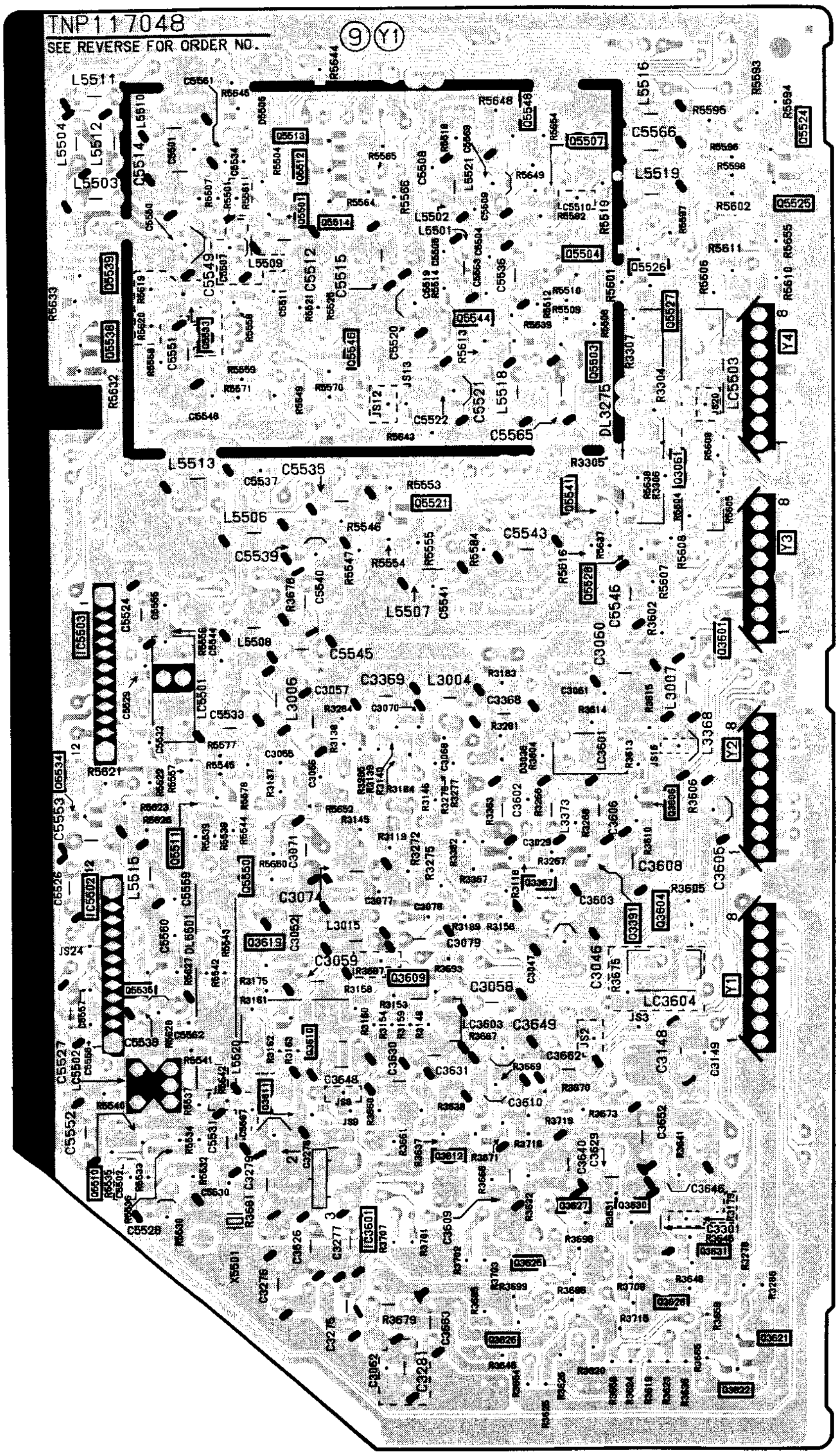

20° ~45°
⑥
⑤
SP (Right)
Degussing Ciol
SP (Left)
CRT Ground
DEG
D810
Ⓐ
DY
DY
IC801
②
③
X8
D16
④
CY
A7
⑦
AC
④ Wireing
AC Coard
①
L11
L4
L3
Red (Screen)
Orange (Focus)
D16

TX–28WG10X

Lead wire \ Hooks	①	②	③	④	⑤	⑥	⑦
AC Coard							○
Deflection Yoke		○	○				
L11	○						
Focus Screen	○			○			
Anode					○	○	
D16	○			○			

Conductor Views

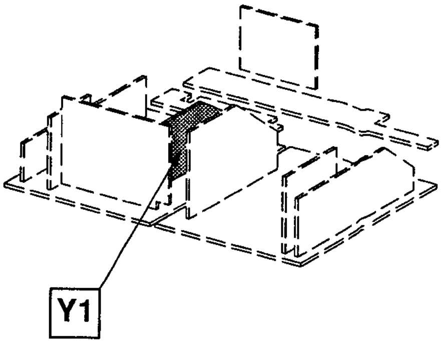
Y1-BOARD TNP117048
(FOIL SIDE)


TNP117048
SEE REVERSE FOR ORDER NO.
⑨ Ⓨ1
6
5
4
3
2
1
A
B
C
D
E
L5511
L5504
L5512
L5503
C5514
L5516
C5566
L5519
C5549
C5512
C5515
L5509
L5502
L5501
L5518
C5521
C5522
C5565
DL3275
R3307
R3304
LC5503
Y4
Y3
Y2
Y1
L5513
C5535
L5506
C5539
C5543
L5507
C5545
C3359
L3004
L3006
C5546
C3060
L3007
L3368
IC5503
IC5502
L5515
C3071
L3015
C3059
C3058
C3649
LC3603
LC3604
C3148
C3608
C3605
C3046
C3626
C3277
IC3601
C3609
C3281
C5527
C5552
C5528

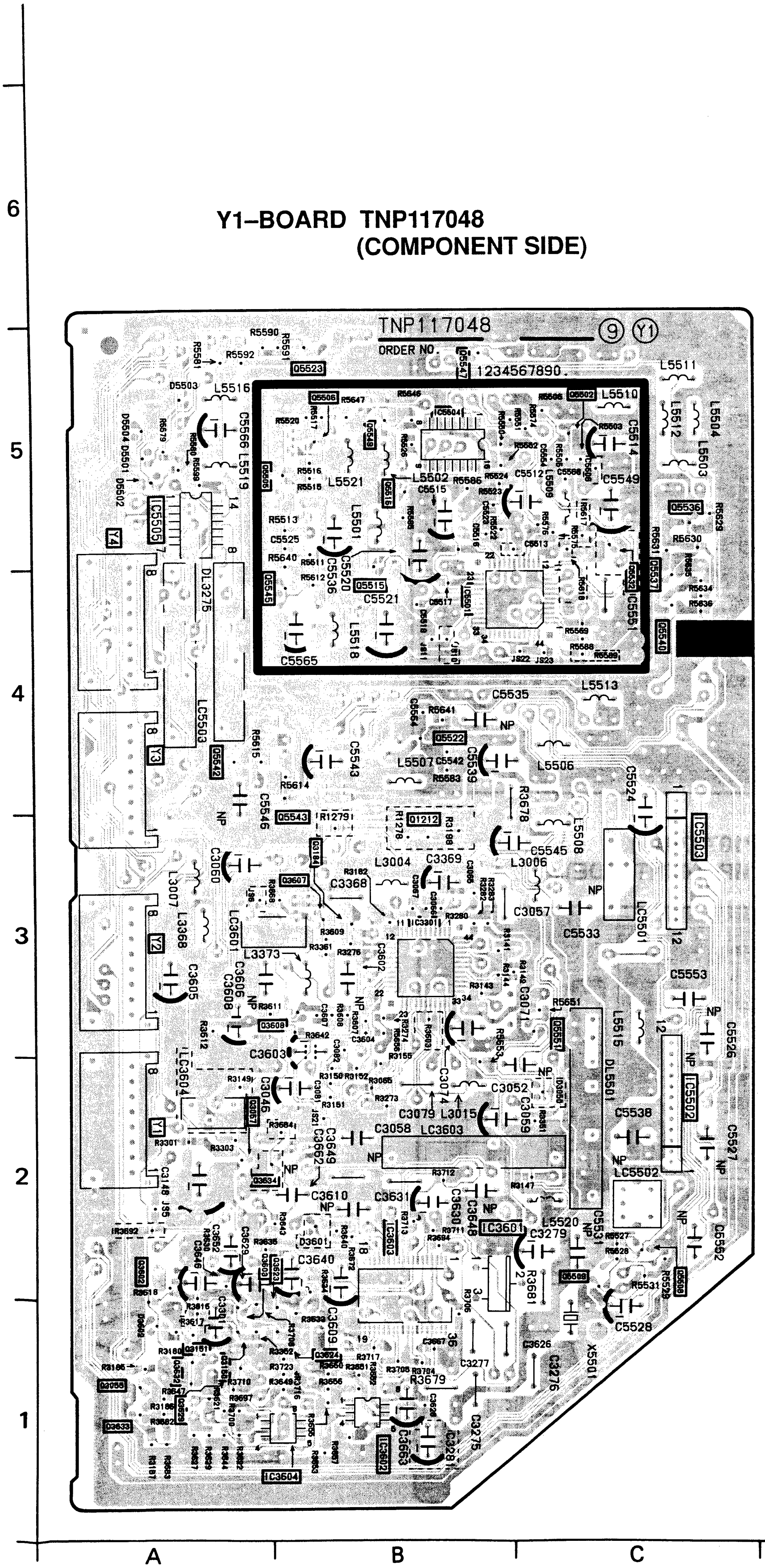
PARTS LOCATION

Y1-BOARD	
IC	
IC3601	B-1
IC5502	A-2
IC5503	A-3
TRANSISTOR	
Q3391	C-2
Q3601	C-3
Q3604	C-2
Q3606	C-3
Q3609	B-2
Q3610	B-2
Q3611	A-2
Q3612	B-2
Q3619	A-2
Q3621	C-1
Q3622	C-1
Q3625	B-1
Q3626	B-1
Q3627	C-1
Q3628	C-1
Q3630	C-1
Q3631	C-1
Q5501	B-5
Q5503	C-4
Q5504	C-5
Q5507	C-5
Q5510	A-2
Q5511	A-2
Q5512	B-5
Q5513	B-5
Q5514	B-5
Q5521	B-4
Q5524	C-5
Q5525	C-5
Q5526	C-5
Q5527	C-5
Q5528	C-4
Q5534	A-3
Q5535	A-2
Q5538	A-4
Q5539	A-5
Q5541	C-4
Q5544	B-4
Q5546	B-4
Q5548	B-5
Q5550	A-3

FOIL SIDE



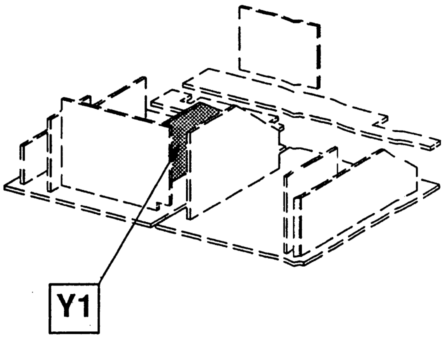
Y1-BOARD TNP117048
(COMPONENT SIDE)


6
5
4
3
2
1
A
B
C
D
E
TNP117048
ORDER NO.
1234567890
⑨ Ⓨ1
Y4
Y3
Y2
Y1
IC5505
IC5503
IC5502
IC3601
IC3603
IC3604
IC3602
IC3301
LC5503
LC3601
LC3604
LC3603
LC5501
LC5502
DL3275
DL5501
L5511
L5510
L5516
L5521
L5502
L5501
L5518
L5513
L5507
L5506
L5508
L3004
L3006
L3007
L3368
L3373
L3015
L5515
L5520
C5566
C5514
C5549
C5520
C5536
C5521
C5565
C5535
C5543
C5539
C5542
C5546
C5545
C5524
C3060
C3369
C3368
C3057
C5533
C3605
C3606
C3608
C3603
C3046
C3058
C3649
C3610
C3631
C3630
C3648
C3640
C3609
C3663
C3281
C3279
C3276
C3275
C3277
C3626
C5553
C5526
C5538
C5527
C5552
C5528
R3678
R3679
R3681
X5501
Q5523
Q5506
Q5502
Q5545
Q5515
Q5536
Q5537
Q5540
Q5522
Q5542
Q5543
Q1212
Q3607
Q3608
Q3634
Q5551
Q5549
NP

PARTS LOCATION

Y1-BOARD	
IC	
IC3301	B-3
IC3601	B-2
IC3602	B-1
IC3603	B-2
IC3604	A-1
IC5501	B-4
IC5502	C-2
IC5503	C-3
IC5504	B-5
IC5505	A-5
TRANSISTOR	
Q1212	B-4
Q3055	A-1
Q3057	A-2
Q3150	A-1
Q3151	A-1
Q3184	B-3
Q3602	A-2
Q3603	A-2
Q3607	B-3
Q3608	A-3
Q3623	A-2
Q3624	B-1
Q3629	A-1
Q3632	A-1
Q3633	A-1
Q3634	A-2
Q5502	C-5
Q5505	A-5
Q5506	B-5
Q5508	C-2
Q5509	C-2
Q5515	B-4
Q5516	B-5
Q5522	B-4
Q5523	B-5
Q5532	C-4
Q5536	C-4
Q5537	C-5
Q5540	C-4
Q5542	A-4
Q5543	B-3
Q5545	A-4
Q5547	B-5
Q5549	B-5
Q5551	C-3

COMPONENT SIDE



6

5

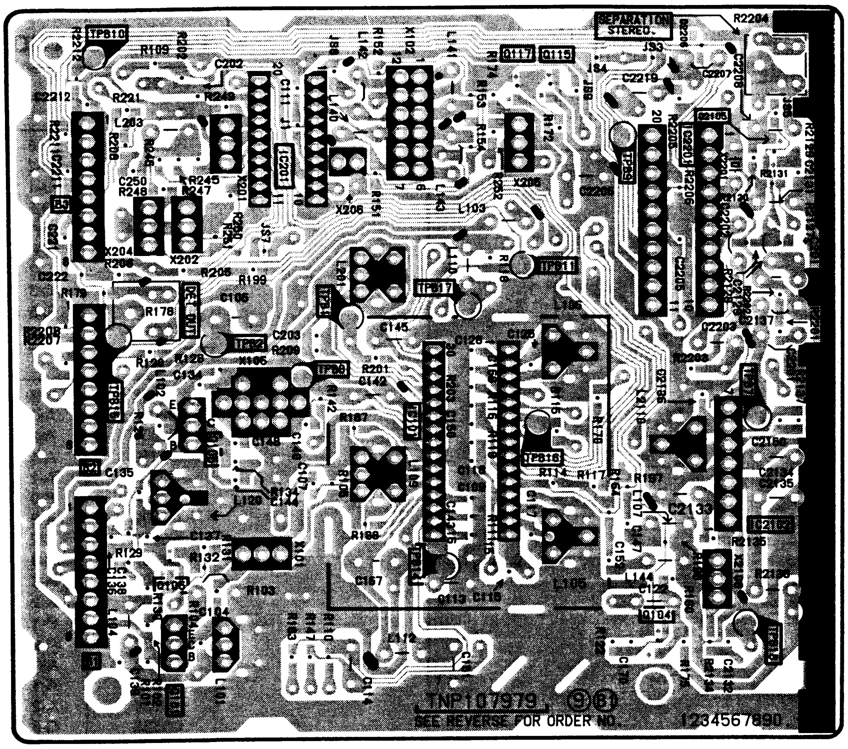
4

3

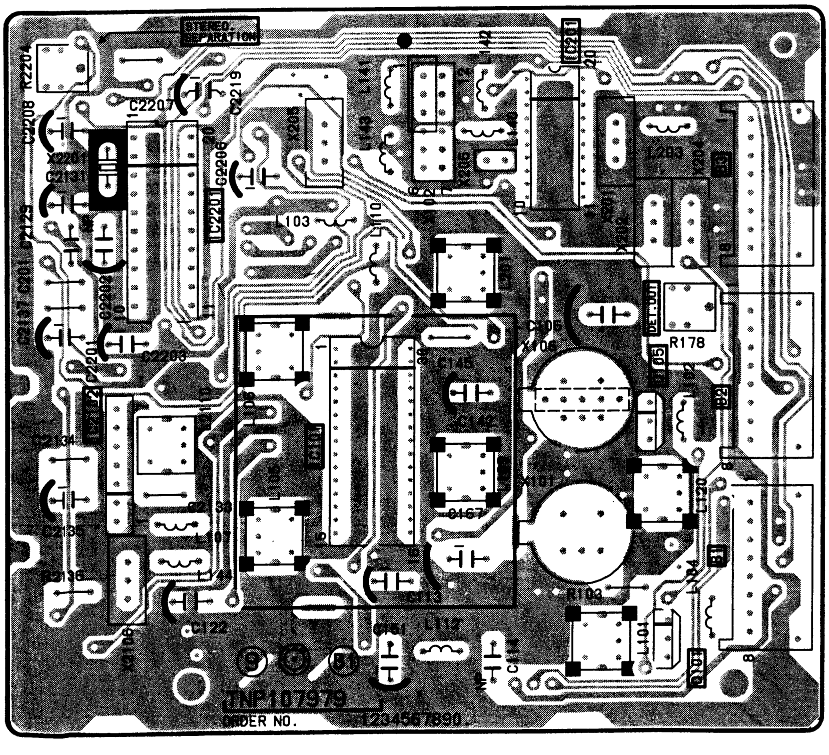
2

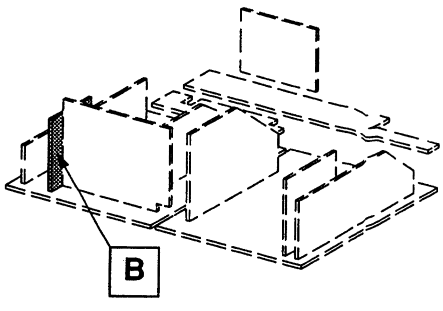
1

B-BOARD TNP107979AH
(FOIL SIDE)


SEPARATION
STEREO
TNP107979
SEE REVERSE FOR ORDER NO.
1234567890

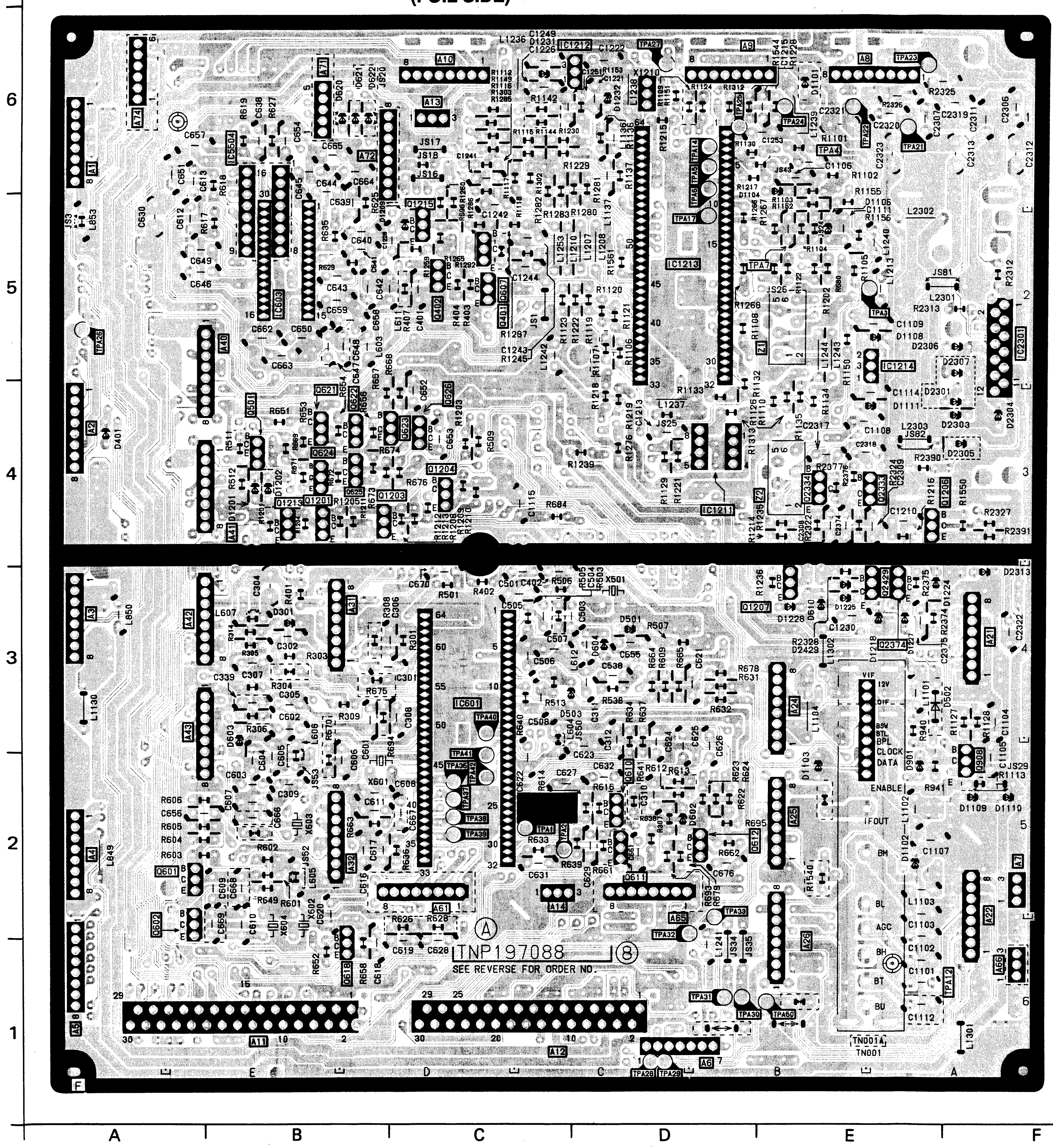
B-BOARD TNP107979AH
(COMPONENT SIDE)


STEREO
SEPARATION
TNP107979
ORDER NO.
1234567890



A B C D E

A–BOARD
TNP197088 (For TX–28WG10X)
TNP197088AA (For TX–24WG10X)
(FOIL SIDE)



PARTS LOCATION

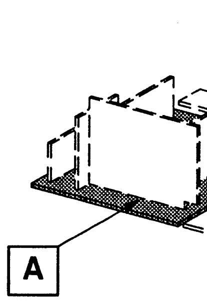
A-BOARD

IC	
IC601	C-3
IC602	B-5
IC1211	D-4
IC1212	C-6
IC1213	D-5
IC1214	E-5
IC2301	F-5
IC5504	B-6

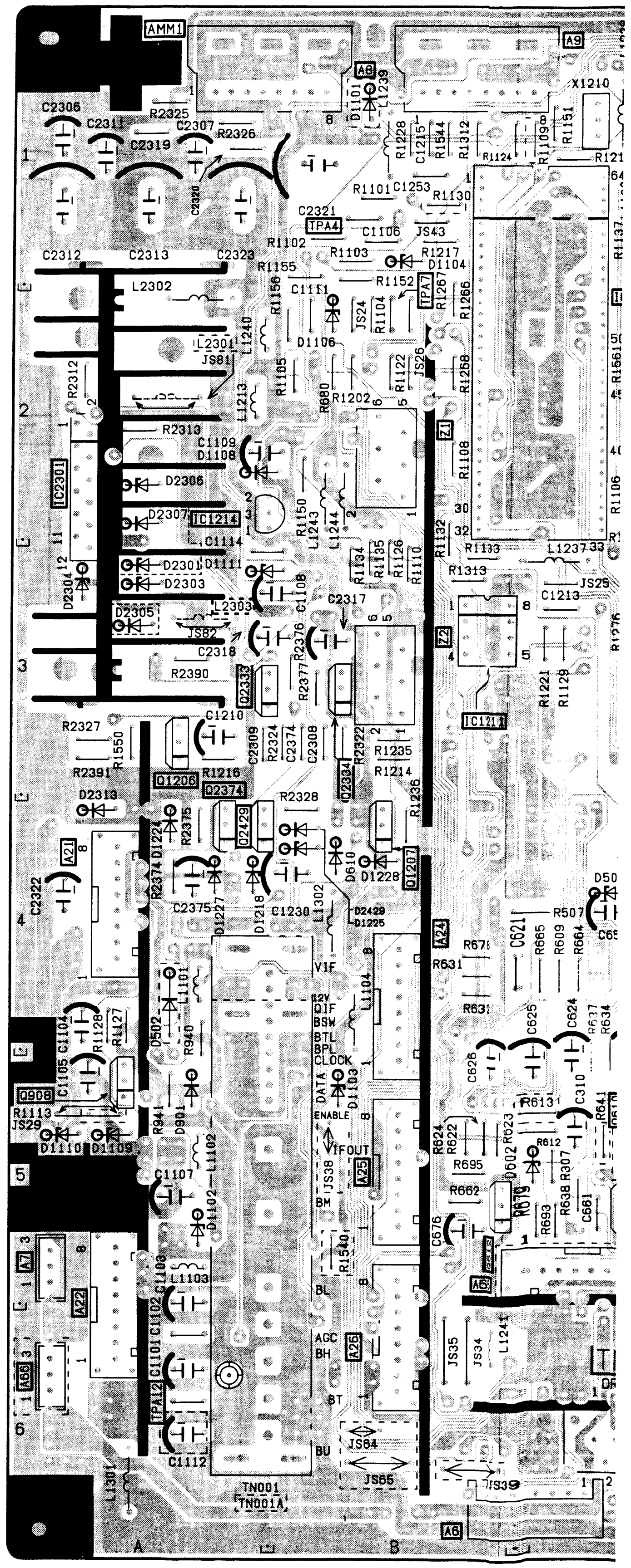
TRANSISTOR	
Q401	C-5
Q402	C-5
Q501	B-4
Q601	A-1
Q602	A-2
Q607	C-5
Q610	D-2
Q611	D-2
Q612	D-2
Q618	B-1
Q621	B-4
Q622	B-4
Q623	C-4
Q624	B-4
Q625	B-4
Q626	C-4
Q908	F-2
Q1201	B-4
Q1203	B-4
Q1204	C-4
Q1206	E-4
Q1207	E-3
Q1213	B-4
Q1215	C-5
Q2333	E-4
Q2334	E-4
Q2374	E-3
Q2429	E-3

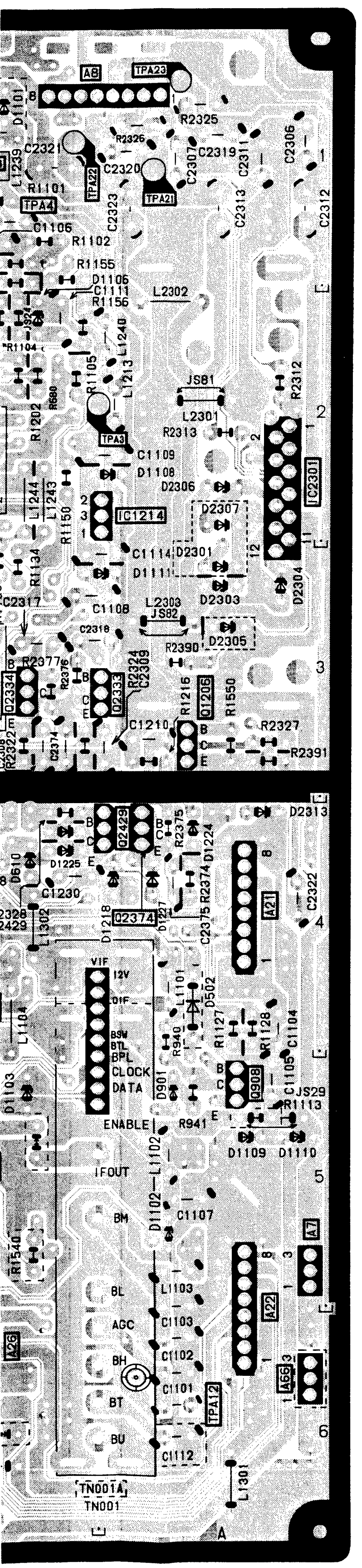
TEST POINT	
TPA1	C-2
TPA2	C-2
TPA3	E-5
TPA4	E-6
TPA5	D-6
TPA6	D-5
TPA7	D-5
TPA12	F-1
TPA14	D-6
TPA17	D-5
TPA21	E-6
TPA22	E-6
TPA23	E-6
TPA24	E-6
TPA25	D-6
TPA26	A-5
TPA27	D-6
TPA30	D-1
TPA31	D-1
TPA32	D-1
TPA33	D-2
TPA36	C-2
TPA37	C-2
TPA38	C-2
TPA39	C-2
TPA40	C-3
TPA41	C-2
TPA42	C-2
TPA50	E-1

FOIL SIDE



A–BOA
TNP197
TNP197
(COMP

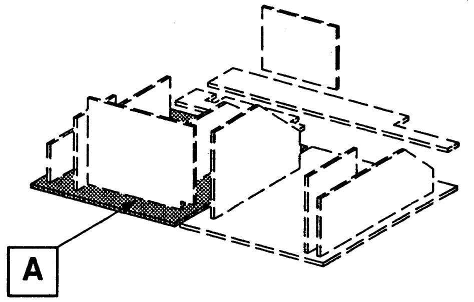



A8
TPA23
R2325
C2319
C2306
C2312
C2313
L2302
JS81
IC2301
IC1214
D2304
TPA21
TPA22
TPA4
TPA3
Q2333
Q2334
Q2374
Q2429
A21
A22
A7
A56
TPA12
VIF
12V
DIF
BSW
BTL
BPL
CLOCK
DATA
ENABLE
IFOUT
BM
BL
AGC
BH
BT
BU
TN001A
TN001
1
2
3
4
5
6

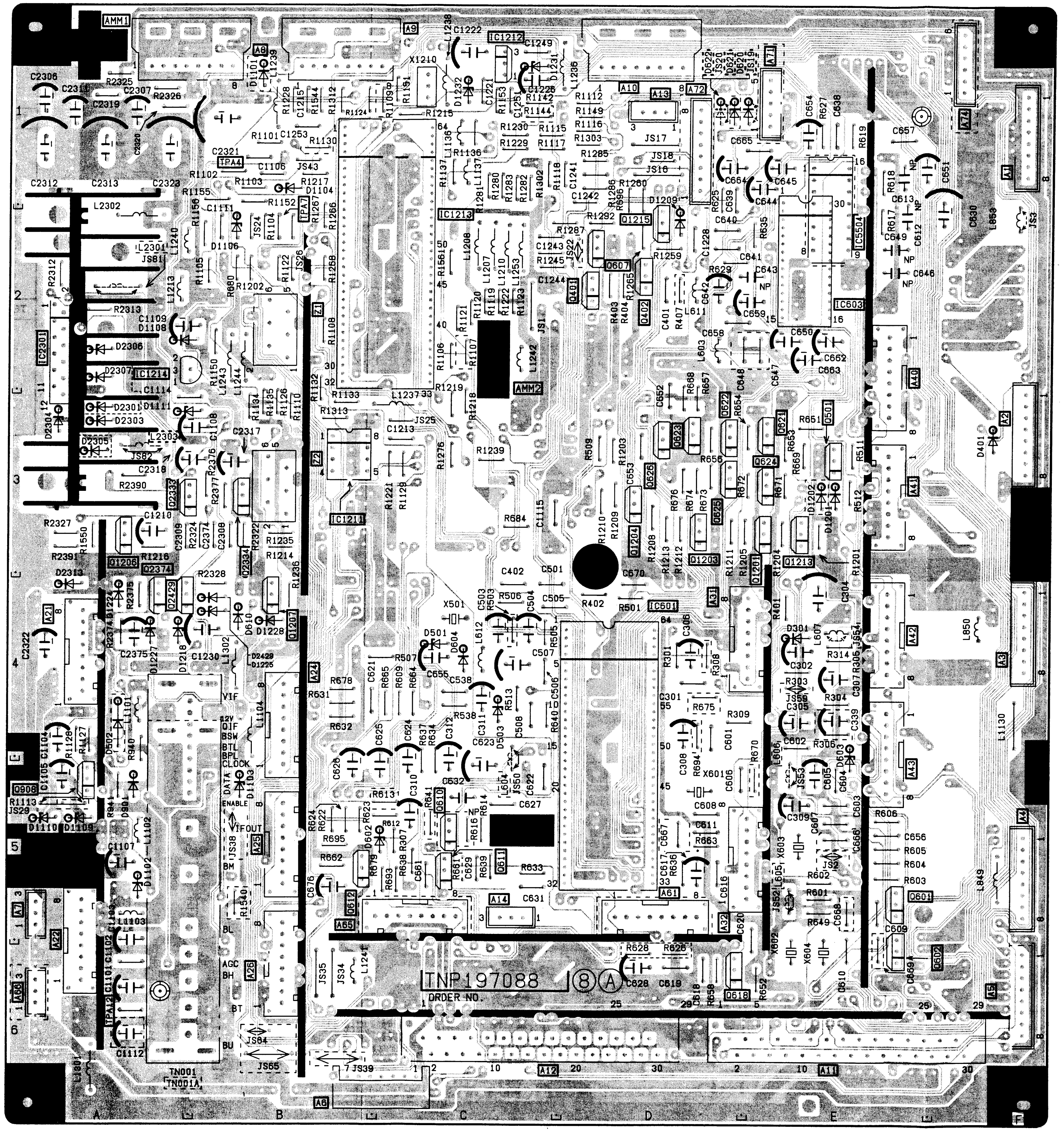
PARTS LOCATION

A-BOARD			
IC		Q2333	E-4
IC601	C-3	Q2334	E-4
IC602	B-5	Q2374	E-3
IC1211	D-4	Q2429	E-3
IC1212	C-6	**TEST POINT**	
IC1213	D-5	TPA1	C-2
IC1214	E-5	TPA2	C-2
IC2301	F-5	TPA3	E-5
IC5504	B-6	TPA4	E-6
TRANSISTOR		TPA5	D-6
Q401	C-5	TPA6	D-5
Q402	C-5	TPA7	D-5
Q501	B-4	TPA12	F-1
Q601	A-1	TPA14	D-6
Q602	A-2	TPA17	D-5
Q607	C-5	TPA21	E-6
Q610	D-2	TPA22	E-6
Q611	D-2	TPA23	E-6
Q612	D-2	TPA24	E-6
Q618	B-1	TPA25	D-6
Q621	B-4	TPA26	A-5
Q622	B-4	TPA27	D-6
Q623	C-4	TPA30	D-1
Q624	B-4	TPA31	D-1
Q625	B-4	TPA32	D-1
Q626	C-4	TPA33	D-2
Q908	F-2	TPA36	C-2
Q1201	B-4	TPA37	C-2
Q1203	B-4	TPA38	C-2
Q1204	C-4	TPA39	C-2
Q1206	E-4	TPA40	C-3
Q1207	E-3	TPA41	C-2
Q1213	B-4	TPA42	C-2
Q1215	C-5	TPA50	E-1

FOIL SIDE



A–BOARD
TNP197088 (For TX–28WG10X)
TNP197088AA (For TX–24WG10X)
(COMPONENT SIDE)


AMM1
AMM2
A9
A10
A13
A72
A71
A8
A14
A61
A65
A12
A11
A6
A21
A22
A24
A26
A31
A32
A35
A40
A41
A42
A43
A44
A56
A3
A4
A5
A7
IC1212
IC1213
IC1211
IC1214
IC2301
IC5504
IC601
IC603
Q1215
Q607
Q401
Q402
Q1204
Q1203
Q1201
Q1213
Q1206
Q1207
Q2333
Q2334
Q2374
Q2429
Q501
Q621
Q622
Q623
Q624
Q625
Q626
Q610
Q611
Q612
Q618
Q601
Q602
Q908
TPA4
TPA7
TPA12
VIF
12V
DIF
BSW
BTL
BPL
CLOCK
DATA
ENABLE
IFOUT
BM
BL
AGC
BH
BT
BU
TN001
TN001A
JS64
JS65
JS339
TNP197088
⑧Ⓐ
ORDER NO.
1
2
3
4
5
6
A
B
C
D
E
F

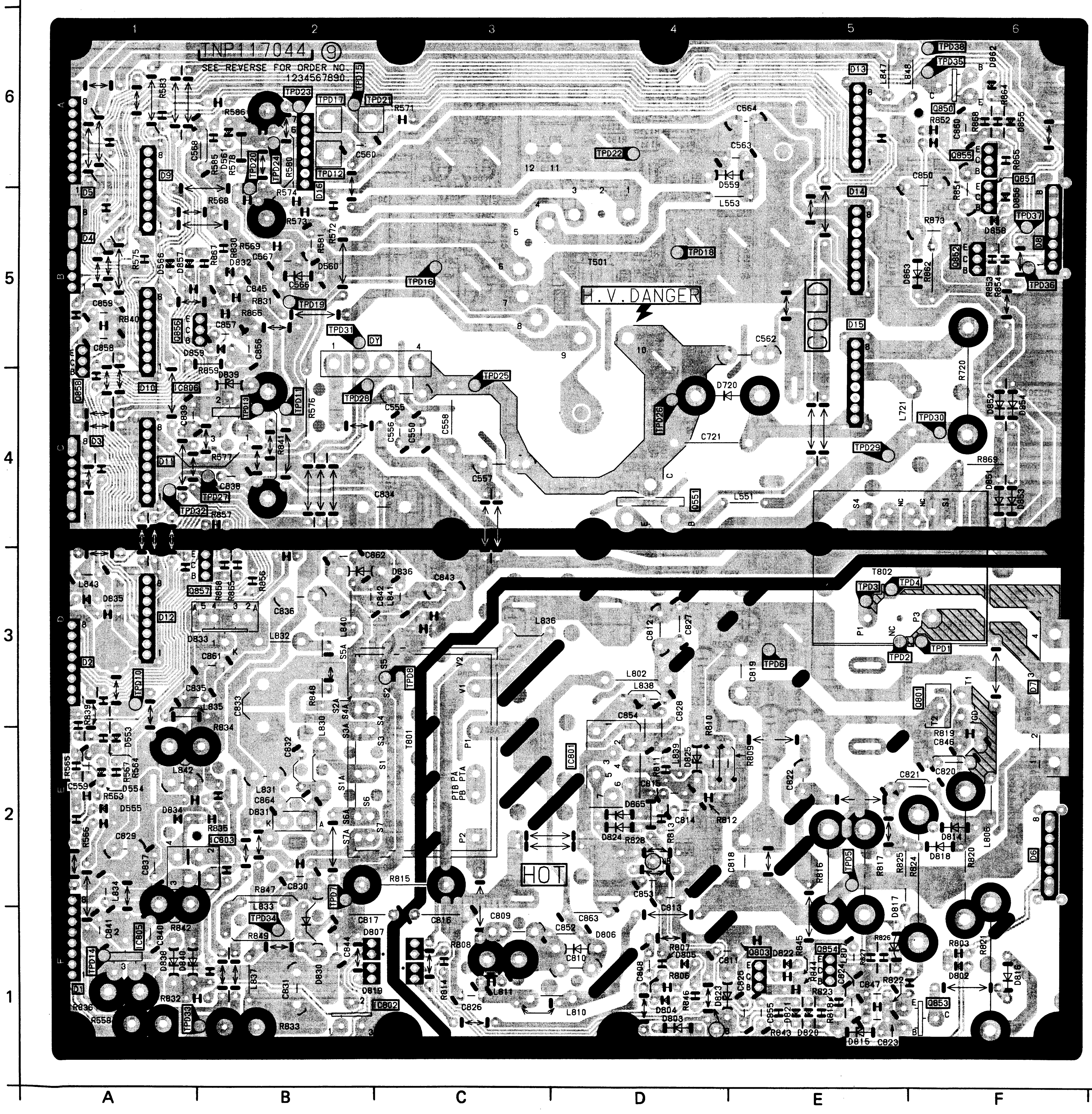
PARTS LOCATION

A-BOARD	
IC	
IC601	K-3
IC602	L-5
IC1211	J-4
IC1212	K-6
IC1213	J-5
IC1214	I-5
IC2301	H-5
IC5504	L-5
TRANSISTOR	
Q401	K-5
Q402	K-5
Q501	L-4
Q601	M-2
Q602	M-2
Q607	K-5
Q610	J-2
Q611	K-2
Q612	J-2
Q618	L-1
Q621	L-4
Q622	L-4
Q623	L-4
Q624	L-4
Q625	L-4
Q626	K-4
Q908	H-2
Q1201	L-4
Q1203	L-4
Q1204	K-4
Q1206	I-4
Q1207	I-3
Q1213	L-4
Q1215	K-5
Q2333	I-4
Q2334	I-4
Q2374	I-4
Q2429	I-3
TEST POINT	
TPA4	I-6
TPA7	J-5

COMPONENT SIDE

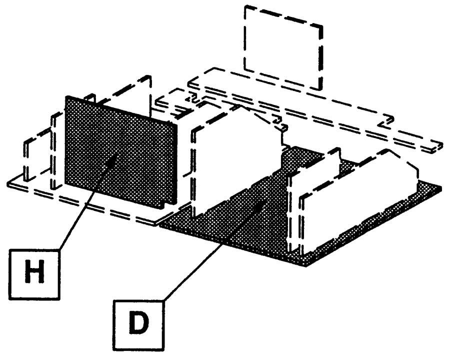
E F G H I J K L M N

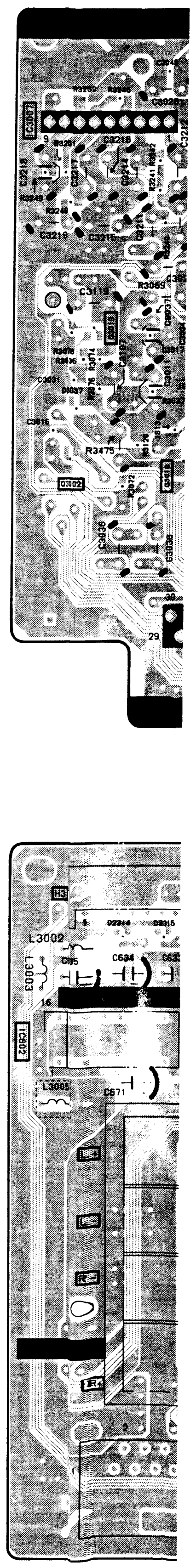
D–BOARD:
TNP117044 (For TX–28WG10X)
TNP117044AC (For TX–24WG10X)

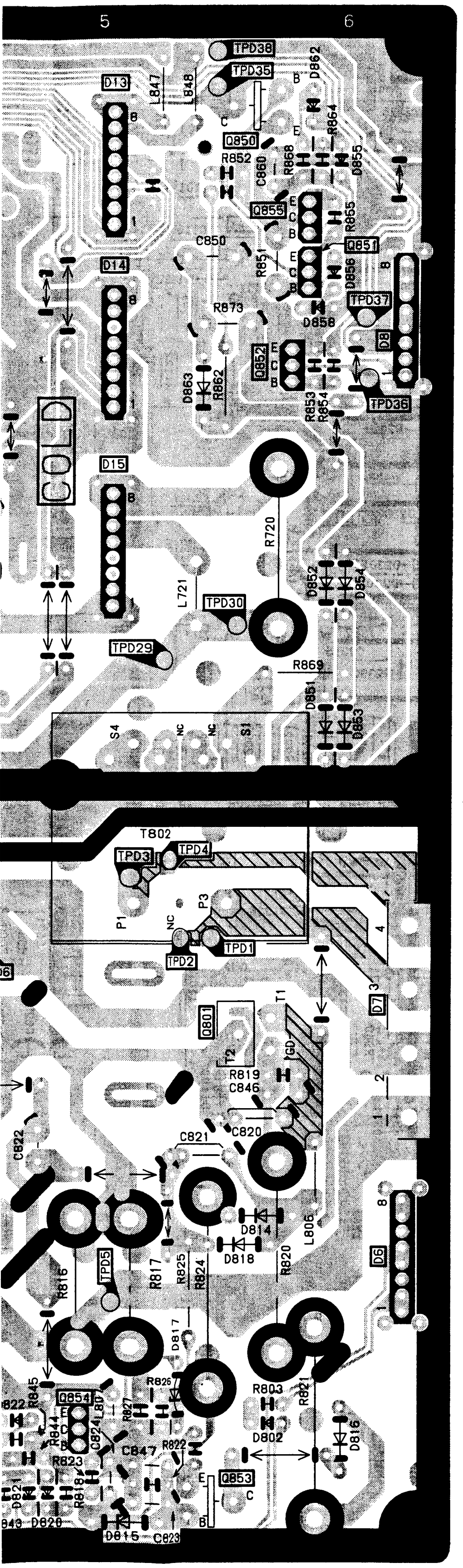

TNP117044 ⑨
SEE REVERSE FOR ORDER NO.
1234567890
H.V.DANGER
COLD
HOT
1
2
3
4
5
6
A
B
C
D
E
F

PARTS LOCATION

D-BOARD	
IC	
IC801	D-2
IC802	B-1
IC803	B-2
IC805	A-1
IC806	A-4
TRANSISTOR	
Q551	D-4
Q801	F-3
Q803	E-1
Q850	F-6
Q851	F-6
Q852	F-5
Q853	F-1
Q854	E-1
Q855	F-6
Q856	A-5
Q857	A-3
Q858	A-4
TEST POINT	
TPD1	E-3
TPD2	E-3
TPD3	E-3
TPD4	E-3
TPD5	E-2
TPD6	E-3
TPD7	B-1
TPD8	C-3
TPD10	A-3
TPD11	B-4
TPD12	B-6
TPD13	B-4
TPD14	A-1
TPD15	B-6
TPD16	C-5
TPD17	B-6
TPD18	D-5
TPD19	B-5
TPD20	B-6
TPD21	B-6
TPD22	D-6
TPD23	B-6
TPD24	B-6
TPD25	C-4
TPD26	D-4
TPD27	B-4
TPD28	B-4
TPD29	E-4
TPD30	F-4
TPD31	B-5
TPD32	A-4
TPD33	A-1
TPD34	B-1
TPD35	F-6
TPD36	F-5
TPD37	F-5
TPD38	F-6

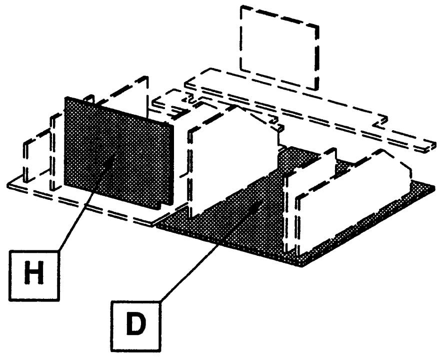




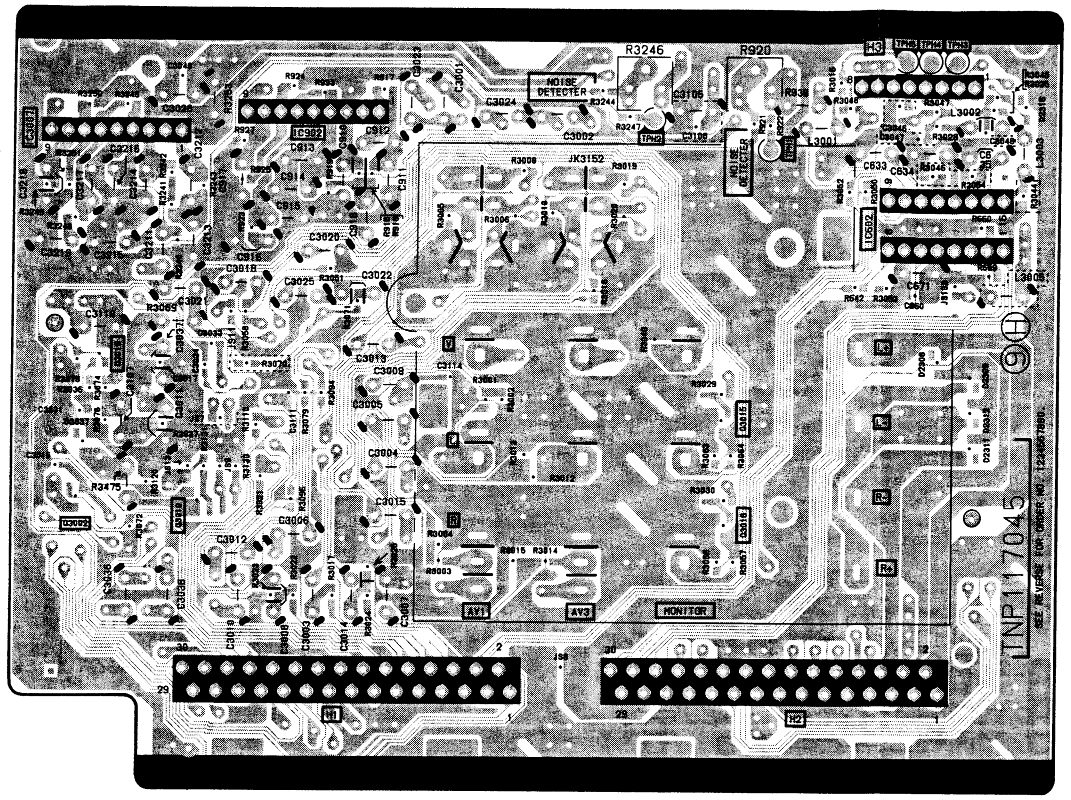

5
6
TPD38
TPD35
D13
D14
D15
Q850
Q855
Q851
Q852
TPD37
TPD36
TPD30
TPD29
COLD
C850
R873
R720
L721
R869
T802
TPD3
TPD4
TPD2
TPD1
Q801
R819
C846
C820
C821
D814
D818
R816
R817
R824
R825
R820
L806
D817
R826
R803
R821
D802
D816
Q853
Q854
C847
D815
C823
D820
D5
D7
TPD5

PARTS LOCATION

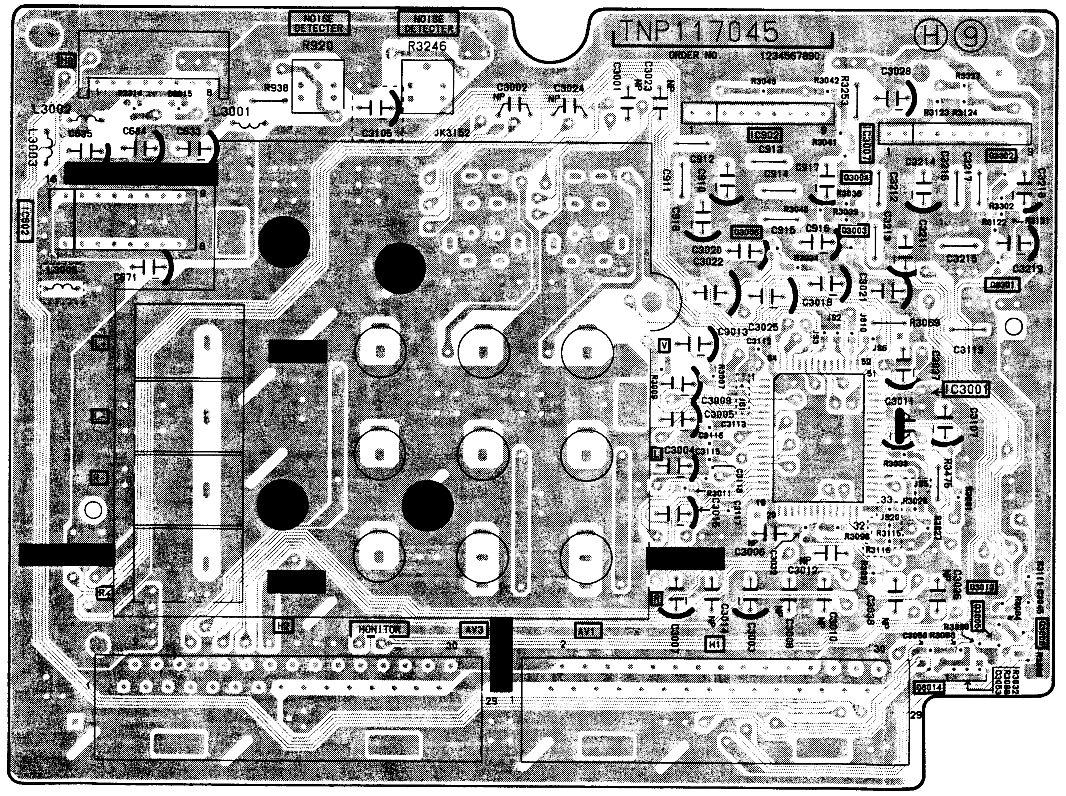
D-BOARD	
IC	
IC801	D-2
IC802	B-1
IC803	B-2
IC805	A-1
IC806	A-4
TRANSISTOR	
Q551	D-4
Q801	F-3
Q803	E-1
Q850	F-6
Q851	F-6
Q852	F-5
Q853	F-1
Q854	E-1
Q855	F-6
Q856	A-5
Q857	A-3
Q858	A-4
TEST POINT	
TPD1	E-3
TPD2	E-3
TPD3	E-3
TPD4	E-3
TPD5	E-2
TPD6	E-3
TPD7	B-1
TPD8	C-3
TPD10	A-3
TPD11	B-4
TPD12	B-6
TPD13	B-4
TPD14	A-1
TPD15	B-6
TPD16	C-5
TPD17	B-6
TPD18	D-5
TPD19	B-5
TPD20	B-6
TPD21	B-6
TPD22	D-6
TPD23	B-6
TPD24	B-6
TPD25	C-4
TPD26	D-4
TPD27	B-4
TPD28	B-4
TPD29	E-4
TPD30	F-4
TPD31	B-5
TPD32	A-4
TPD33	A-1
TPD34	B-1
TPD35	F-6
TPD36	F-5
TPD37	F-5
TPD38	F-6



H–BOARD TNP117045
(FOIL SIDE)

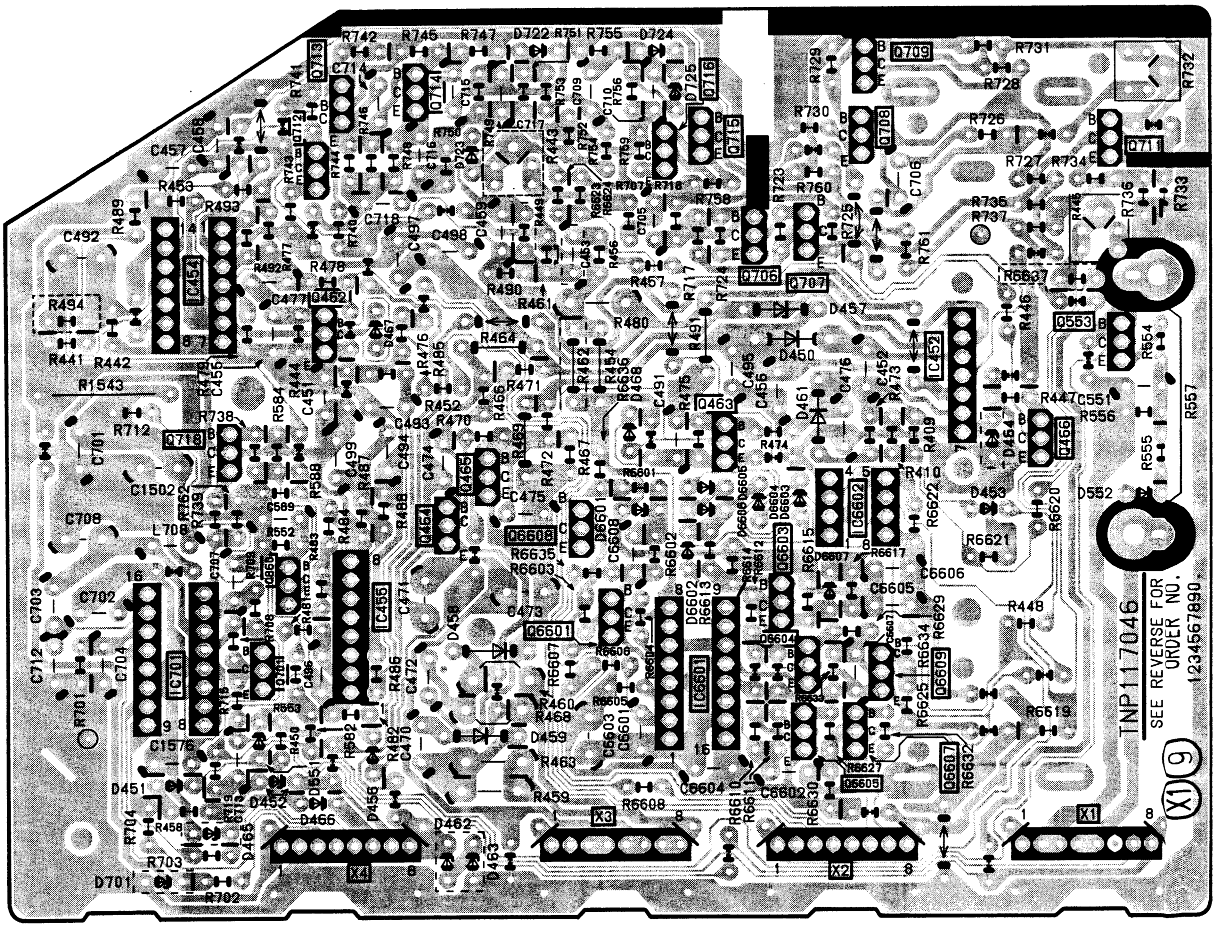

R3246
R920
NOISE DETECTER
JK3152
C3002
C3024
L3001
AV1
AV3
MONITOR
TNP117045
H9

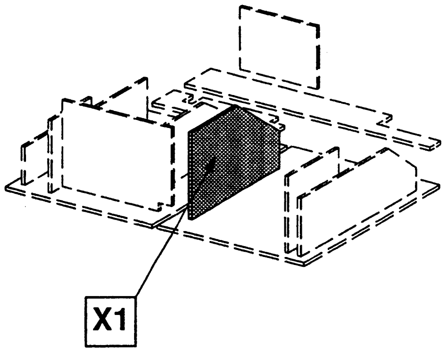
H–BOARD TNP117045
(COMPONENT SIDE)


NOISE DETECTER
NOISE DETECTER
R920
R3246
TNP117045
H9
ORDER NO
R938
L3001
L3002
L3003
C3002
C3024
JK3152
C3105
IC3001
C3013
C3011
C3009
C3005
C3006
MONITOR
AV3
AV1
H1
H2
30
29
2
1

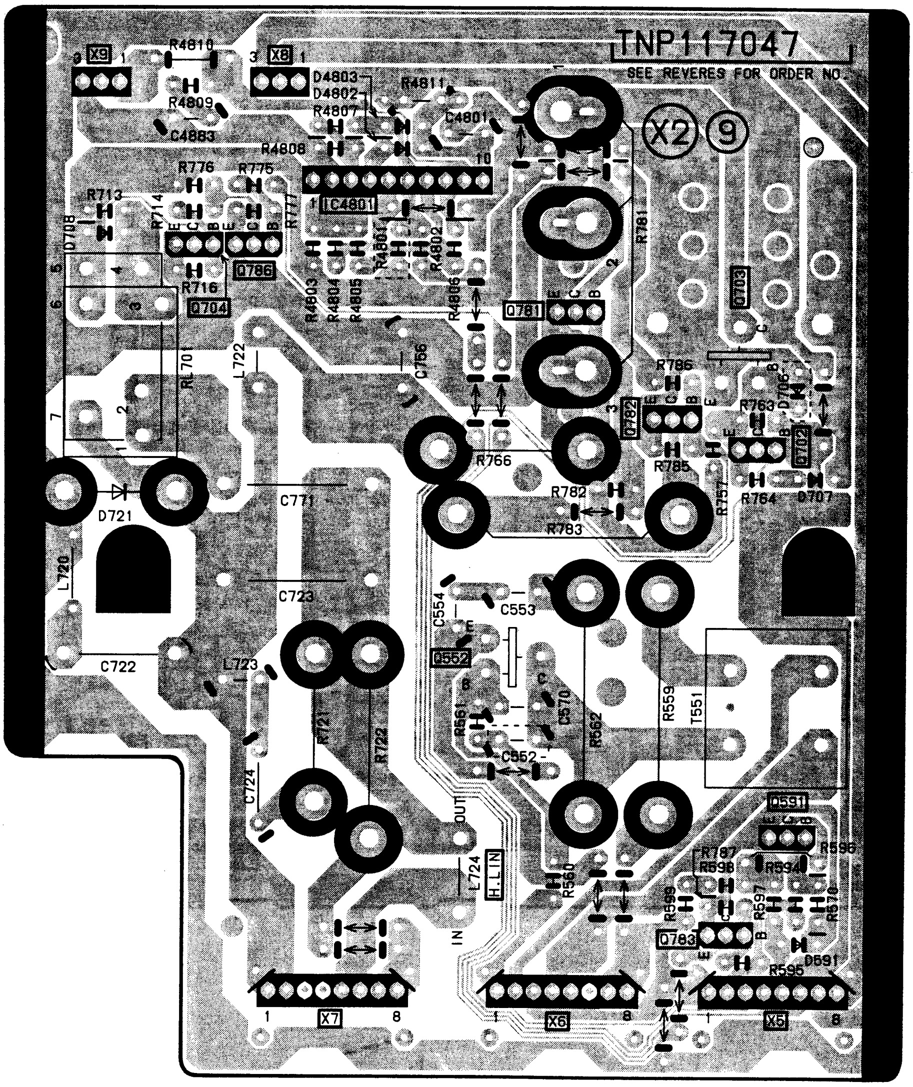
E F G H I J K L M N

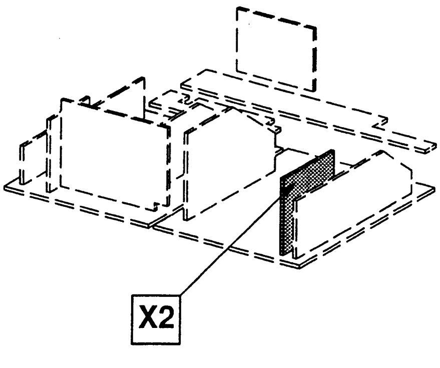
X1-BOARD
TNP117046 (For TX-28WG10X)
TNP117046AA (For TX-24WG10X)


TNP117046
SEE REVERSE FOR ORDER NO.
1234567890
X1
X2
X3
X4
IC454
IC452
IC455
IC701
IC6601
IC6602
Q462
Q463
Q464
Q465
Q466
Q553
Q706
Q707
Q708
Q709
Q711
Q713
Q714
Q715
Q716
Q718
Q6601
Q6603
Q6605
Q6607
Q6608
Q6609
R742
R745
R747
D722
R751
R755
D724
R731
R728
R732
R494
R441
R442
R1543
R712
C492
C457
R453
R493
C708
C702
C703
C704
C712
R701
D451
R704
R703
D701
R702
D466
D462
D463
D457
D450
D461
D453
D552
R448
R6619
R6621
C6606
C6605
R557
R555
R556
C551
R447
A
B
C
D
E
1
2
3
4
5
6



X2–BOARD
TNP117047 (For TX–28WG10X)
TNP117047AA (For TX–24WG10X)


TNP117047
SEE REVERES FOR ORDER NO.
X2
9
X9
X8
R4810
R4809
C4883
D4803
D4802
R4807
R4808
R4811
C4801
IC4801
R776
R775
R713
R714
R777
D708
Q786
R716
Q704
R4801
R4802
R4803
R4804
R4805
R4806
R781
Q781
Q703
R786
D706
R763
Q782
Q702
R785
R764
D707
R757
L722
C766
RL701
R766
R782
R783
D721
C771
L720
C723
C722
L723
R721
R722
C724
C554
C553
Q552
R561
C570
C552
R562
R559
T551
Q591
R787
R598
R594
R596
R597
R570
R599
R560
Q783
D591
R595
OUT
IN
L724
H.LIN
X7
X6
X5
1
8



6
5
4
3
2
1

A B C D E

6

5

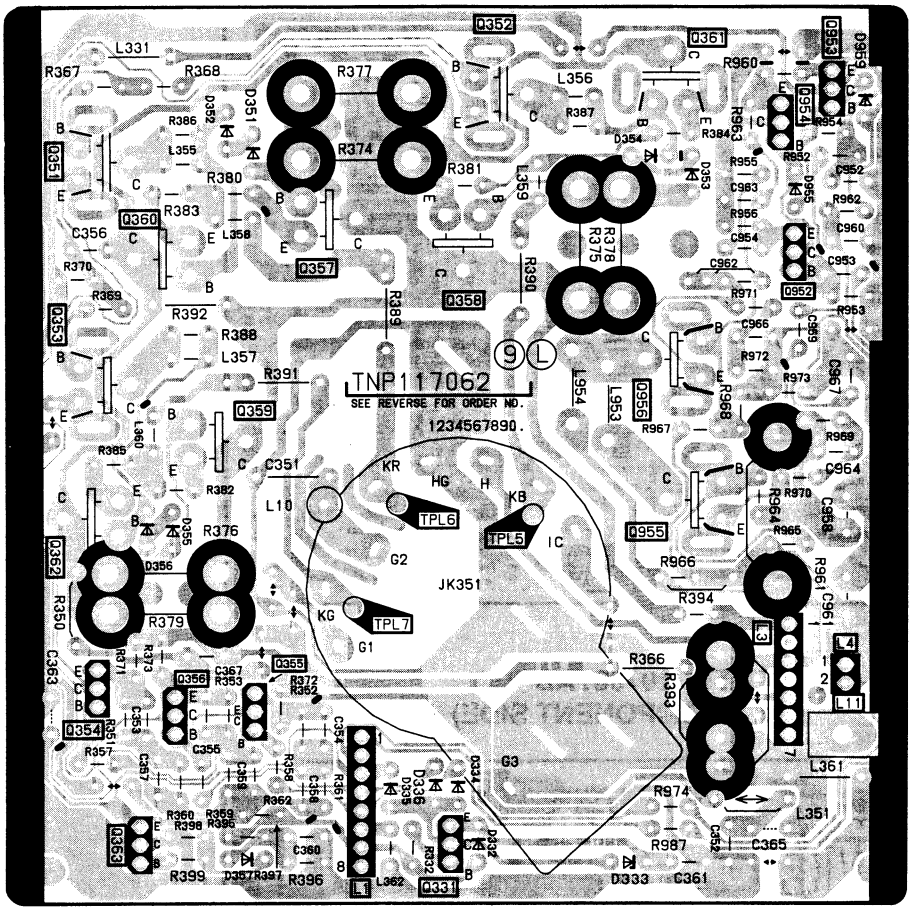
4

3

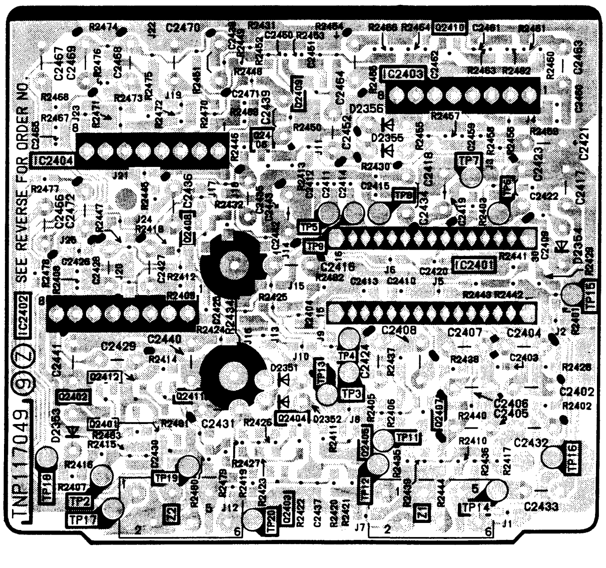
2

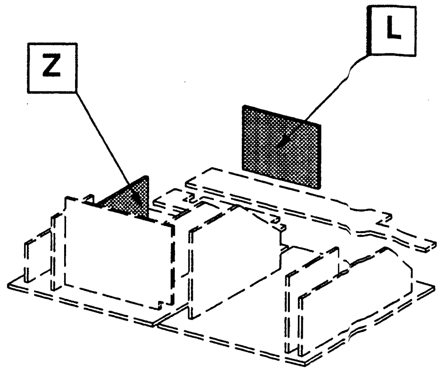
1

L–BOARD
TNP117062 (For TX–28WG10X)
TNP117062AB (For TX–24WG10X)


TNP117062
SEE REVERSE FOR ORDER NO.
1234567890.
9 L
JK351
TPL5
TPL6
TPL7
KR
HG
H
KB
IC
G1
G2
G3
KG
L10
C351
Q351
Q352
Q353
Q354
Q355
Q356
Q357
Q358
Q359
Q360
Q361
Q362
Q363
Q331
Q952
Q953
Q954
Q955
Q956
L331
L351
L356
L361
L362
L1
L3
L4
L11

Z–BOARD
TNP117049 (For TX–28WG10X)
TNP117049AA (For TX–24WG10X)


TNP117049 9 Z
SEE REVERSE FOR ORDER NO.
IC2401
IC2402
IC2403
IC2404



A B C D E

6

5

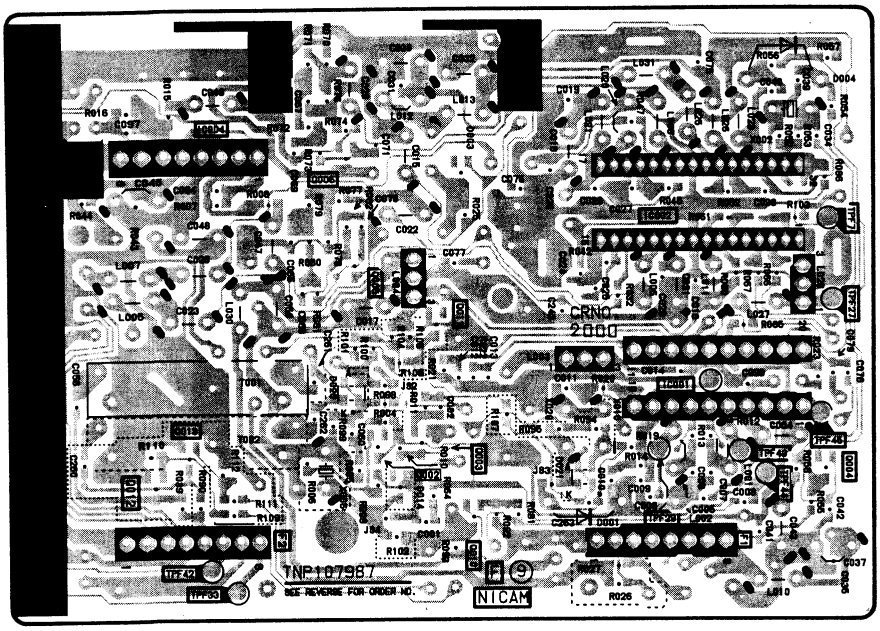
4

3

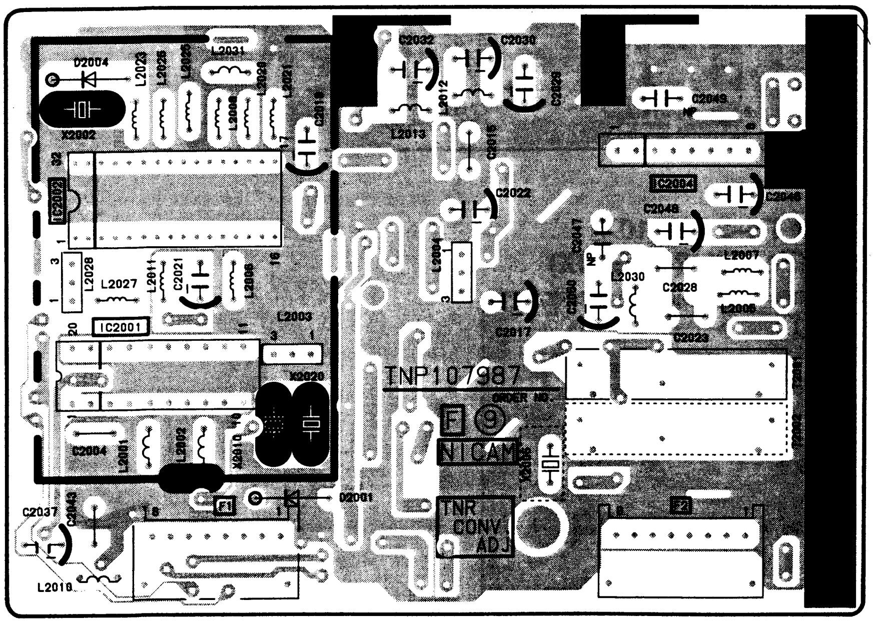
2

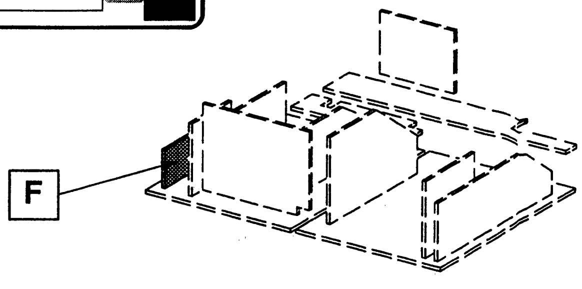
1

F–BOARD TNP107987AB
(FOIL SIDE)


TNP107987
SEE REVERSE FOR ORDER NO.
F
9
NICAM
CRNO 2000
R026

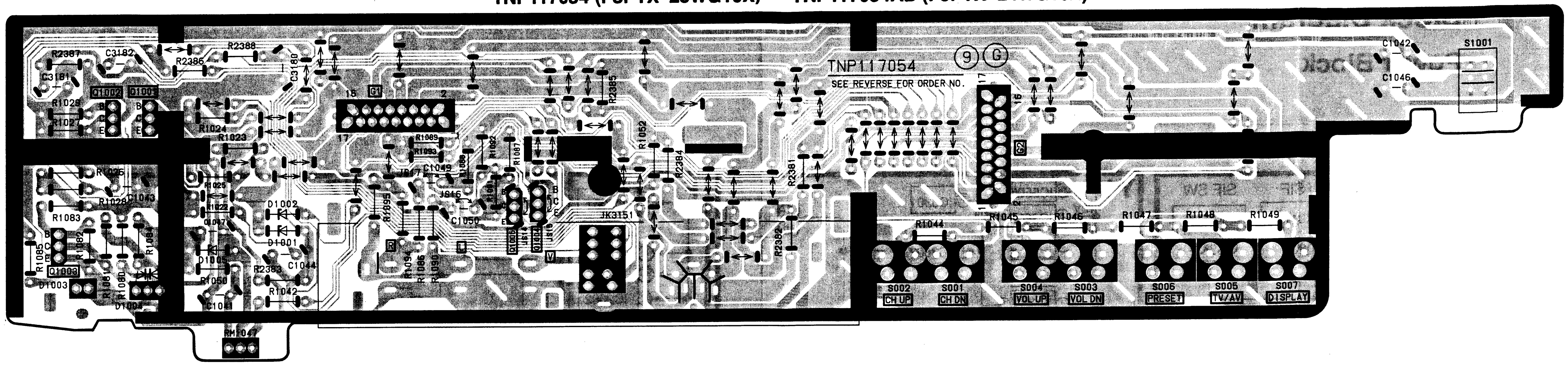
F–BOARD TNP107987AB
(COMPONENT SIDE)


D2004
X2002
IC2002
IC2001
IC2004
X2020
D2001
C2037
L2010
TNP107987
ORDER NO.
F
9
NICAM
TNR CONV ADJ

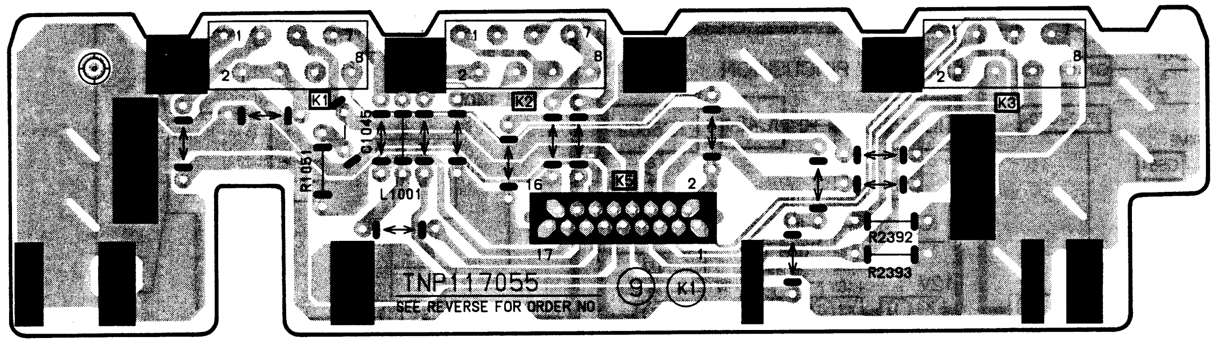


A B C D E

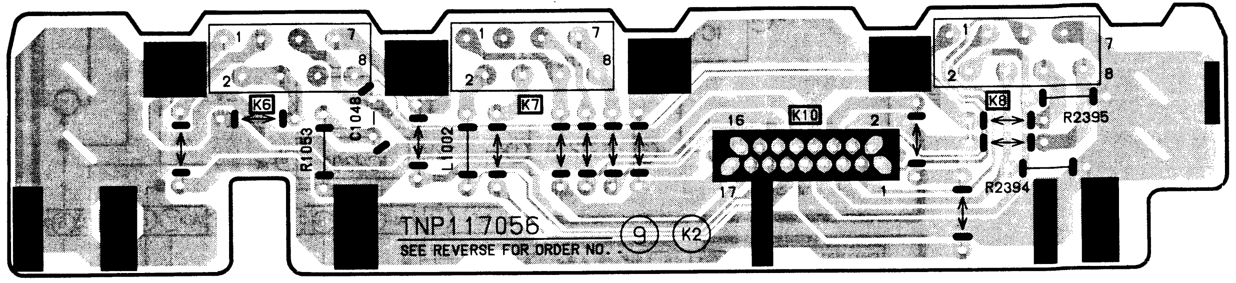
G–BOARD
TNP117054 (For TX–28WG10X) TNP117054AB (For TX–24WG10X)


TNP117054
SEE REVERSE FOR ORDER NO.
S1001
C1042
C1046
JK3151
R1044
R1045
R1046
R1047
R1048
R1049
S002
CH UP
S001
CH DN
S004
VOL UP
S003
VOL DN
S006
PRESET
S005
TV/AV
S007
DISPLAY
RM1047
D1001
D1002
D1003
Q1001
Q1002
Q1006
R2381
R2382
R2383
R2384
R2385
R2386
R2387
R2388
C3180
C3181
C3182

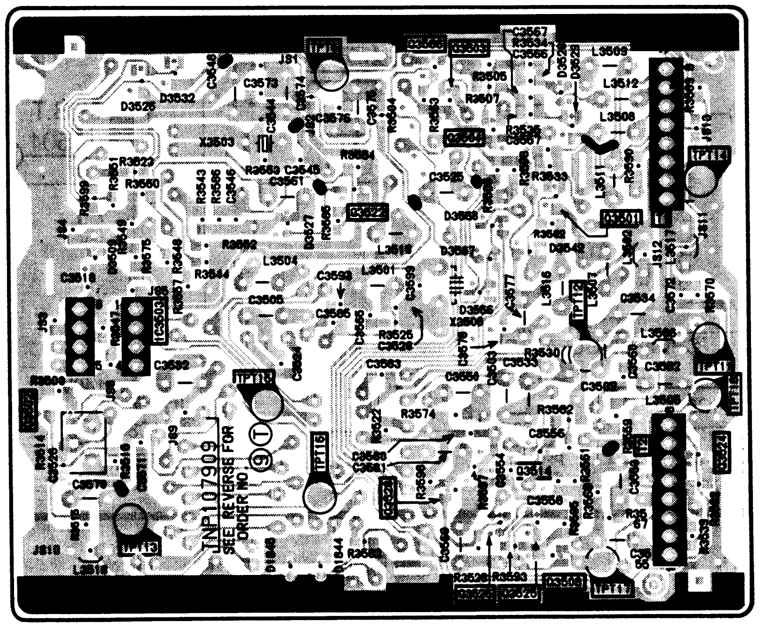
K1–BOARD TNP117055
(For TX–28WG10X)


K1
K2
K3
K5
L1001
R1051
C1045
R2392
R2393
TNP117055
SEE REVERSE FOR ORDER NO.

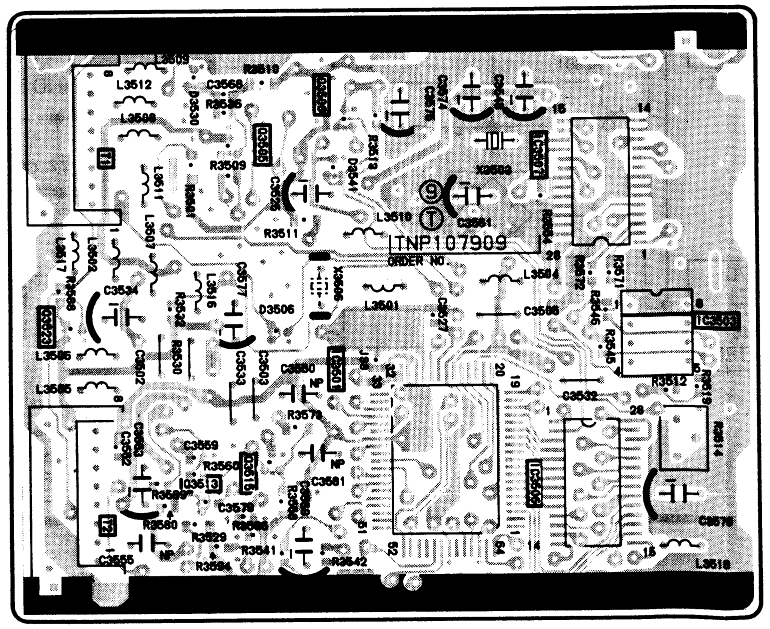
K2–BOARD TNP117056
(For TX–24WG10X)

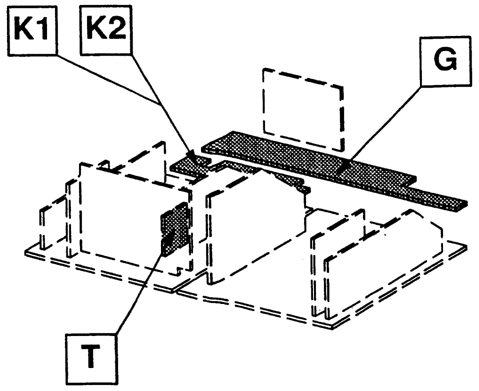

K6
K7
K8
K10
R1063
C1048
L1002
R2394
R2395
TNP117056
SEE REVERSE FOR ORDER NO.

T–BOARD TNP107909AB
(FOIL SIDE)


TNP107909
SEE REVERSE FOR ORDER NO.

T–BOARD TNP107909AB
(COMPONENT SIDE)


TNP107909
ORDER NO.



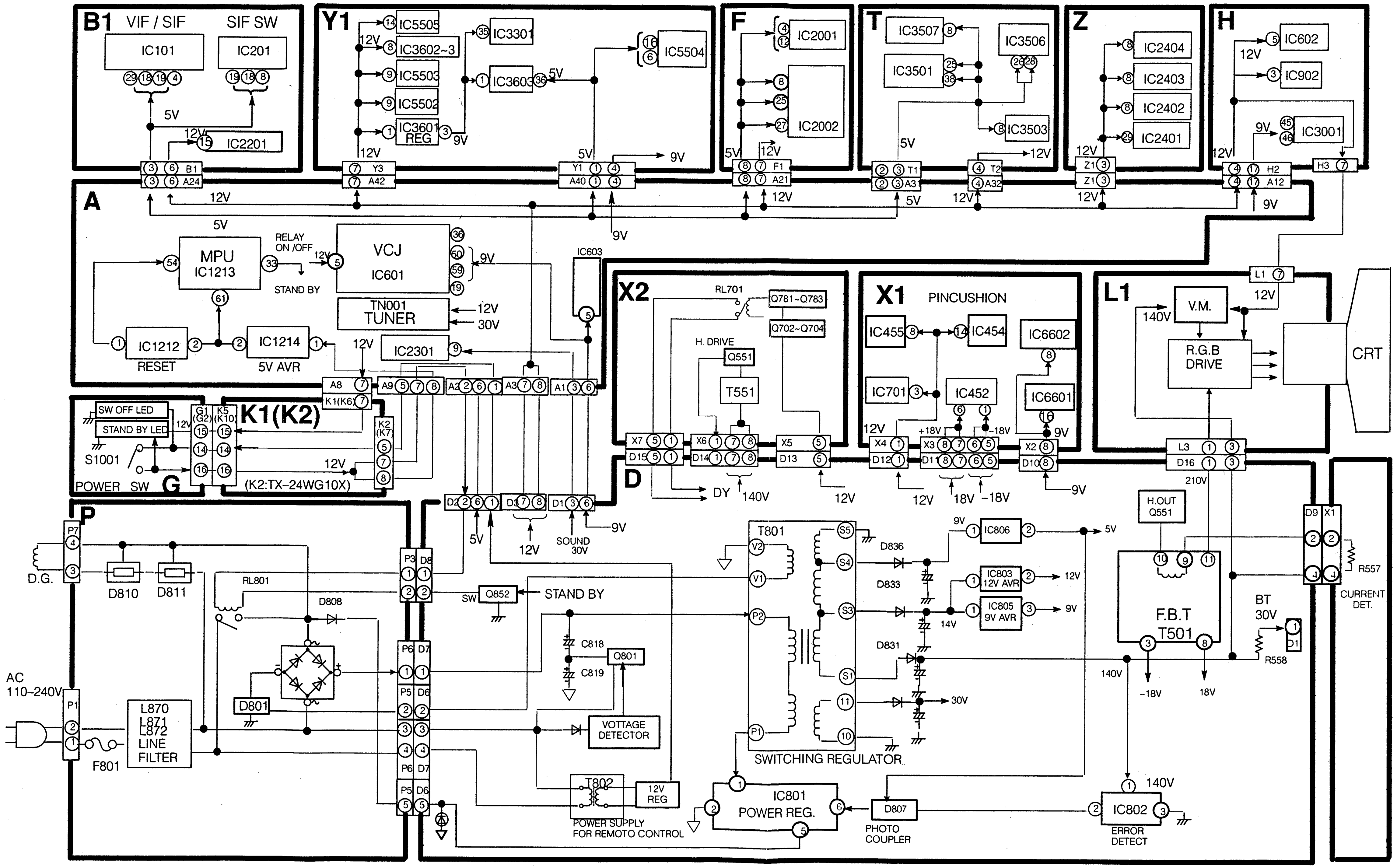
6
5
4
3
2
1

A B C D E F G H I

TX-24 / 28WG10X

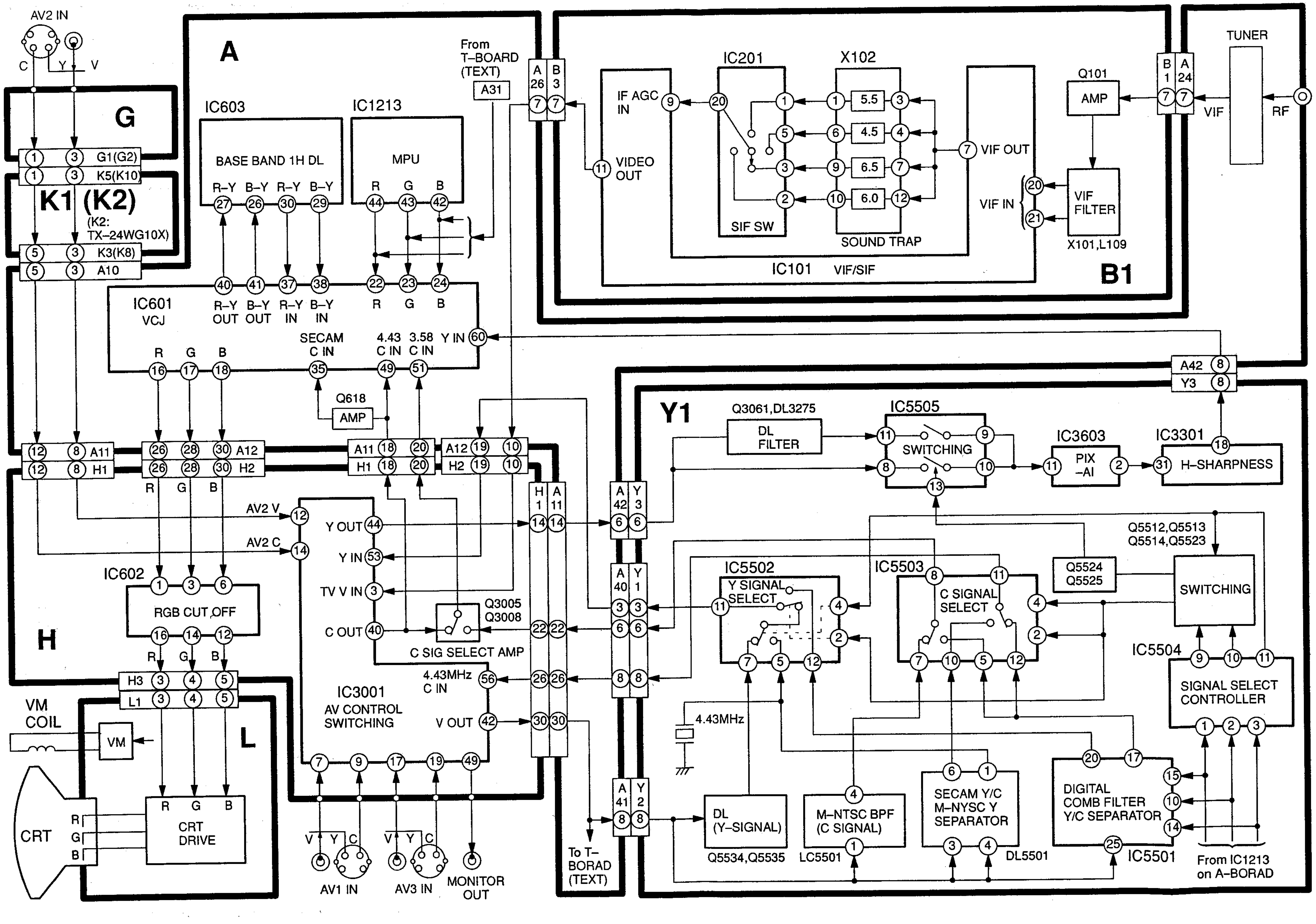
Block Diagram

Power Block

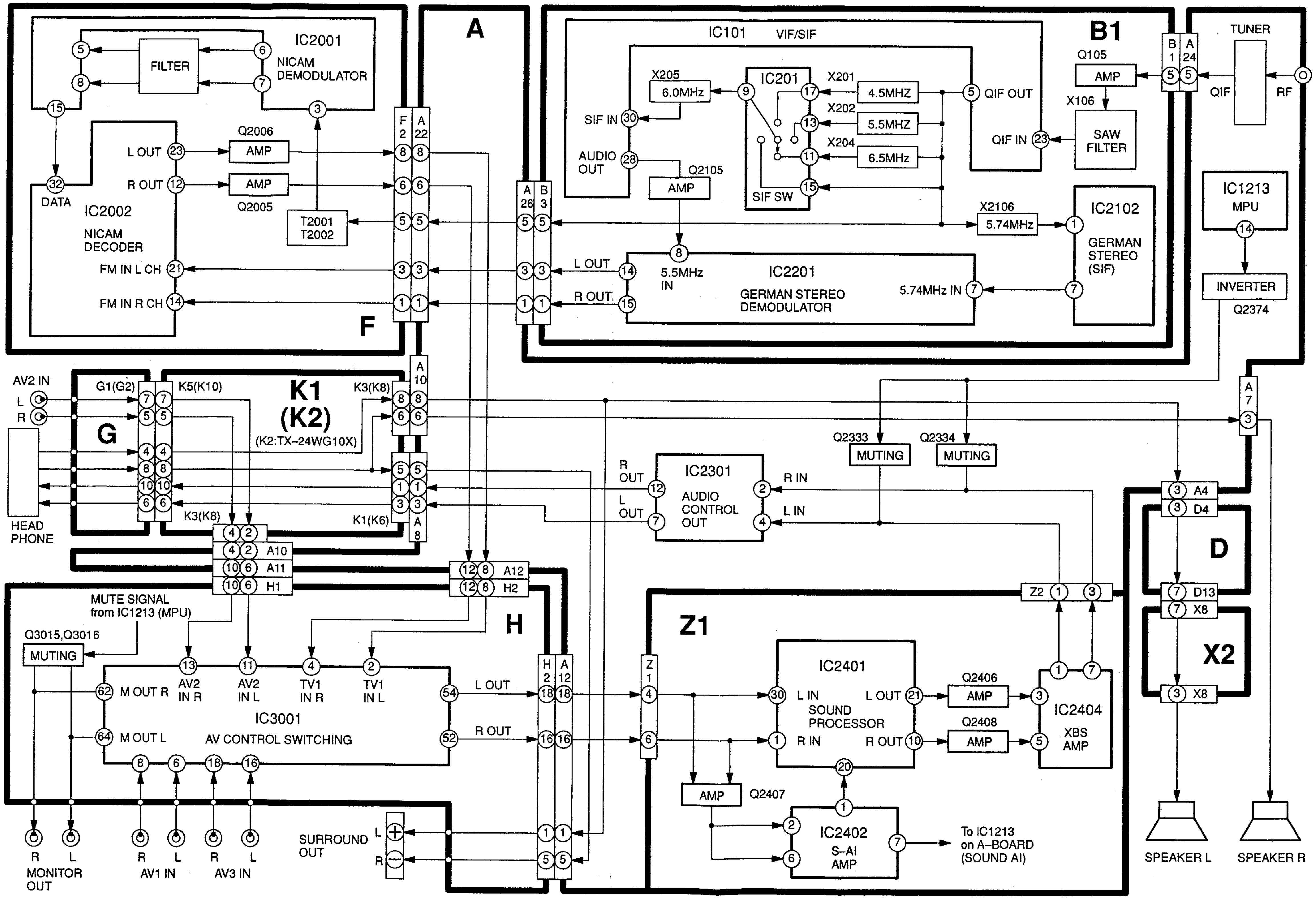


B1
VIF / SIF
SIF SW
IC101
IC201
IC2201
5V
12V
Y1
IC5505
IC3602~3
IC5503
IC5502
IC3601 REG
IC3301
IC3603
IC5504
9V
5V
F
IC2001
IC2002
T
IC3507
IC3506
IC3501
IC3503
Z
IC2404
IC2403
IC2402
IC2401
H
IC602
IC902
IC3001
A
MPU IC1213
RELAY ON /OFF
STAND BY
VCJ IC601
TN001 TUNER
30V
IC1212 RESET
IC1214 5V AVR
IC2301
IC603
SW OFF LED
STAND BY LED
S1001
POWER SW
G
K1(K2)
(K2:TX-24WG10X)
X2
RL701
Q781~Q783
Q702~Q704
H. DRIVE
Q551
T551
X1
PINCUSHION
IC455
IC454
IC6602
IC701
IC452
IC6601
L1
V.M.
140V
R.G.B DRIVE
CRT
D
DY
18V
-18V
210V
SOUND 30V
P
D.G.
D810
D811
RL801
D808
AC 110–240V
F801
L870 L871 L872 LINE FILTER
D801
Q852
STAND BY
C818
C819
Q801
VOTTAGE DETECTOR
T802
12V REG
POWER SUPPLY FOR REMOTO CONTROL
T801
D836
D833
D831
14V
SWITCHING REGULATOR
IC801 POWER REG.
D807
PHOTO COUPLER
IC806
IC803 12V AVR
IC805 9V AVR
H.OUT Q551
F.B.T T501
BT 30V
R557
R558
CURRENT DET.
IC802
ERROR DETECT

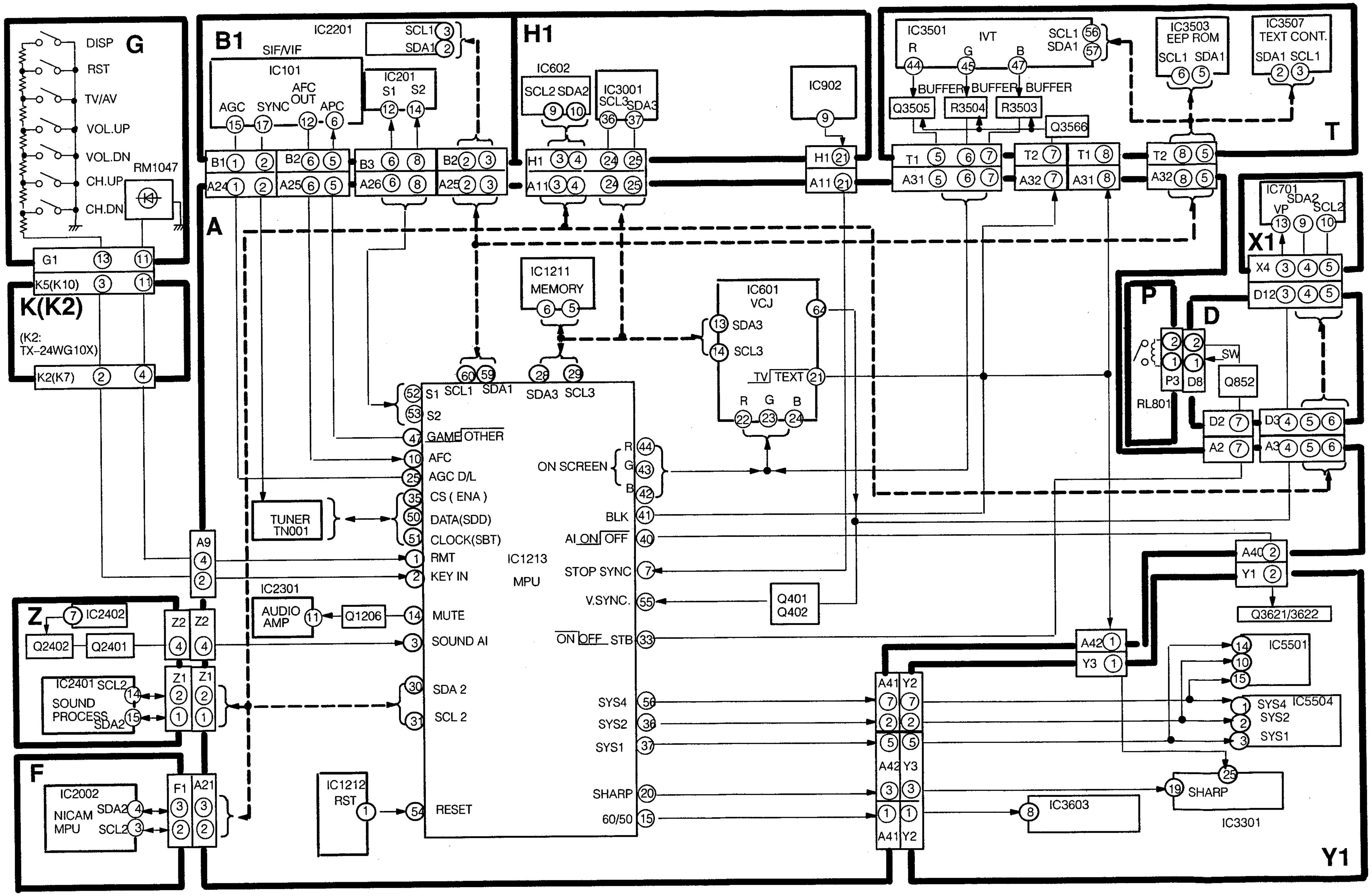
Video Block


AV2 IN
C
Y
V
G
G1(G2)
K5(K10)
K1 (K2)
(K2: TX-24WG10X)
K3(K8)
A10
A
IC603
BASE BAND 1H DL
R–Y B–Y R–Y B–Y
IC1213
MPU
R G B
From T–BOARD (TEXT)
A31
A 26
B 3
IC601
VCJ
R–Y OUT
B–Y OUT
R–Y IN
B–Y IN
SECAM C IN
4.43 C IN
3.58 C IN
Y IN
Q618
AMP
A11
A12
H1
H2
IF AGC IN
VIDEO OUT
IC201
SIF SW
X102
5.5
4.5
6.5
6.0
SOUND TRAP
VIF OUT
VIF IN
IC101 VIF/SIF
Q101
AMP
VIF FILTER
X101,L109
B1
B 1
A 24
VIF
RF
TUNER
A42
Y3
Y1
Q3061,DL3275
DL FILTER
IC5505
SWITCHING
IC3603
PIX -AI
IC3301
H-SHARPNESS
IC602
RGB CUT,OFF
H
AV2 V
AV2 C
Y OUT
Y IN
TV V IN
C OUT
Q3005
Q3008
C SIG SELECT AMP
4.43MHz C IN
IC3001
AV CONTROL SWITCHING
V OUT
H 1
A 11
A 42
Y 3
A 40
Y 1
A 41
Y 2
IC5502
Y SIGNAL SELECT
IC5503
C SIGNAL SELECT
Q5524
Q5525
Q5512,Q5513
Q5514,Q5523
SWITCHING
IC5504
SIGNAL SELECT CONTROLLER
4.43MHz
DL (Y-SIGNAL)
Q5534,Q5535
M-NTSC BPF (C SIGNAL)
LC5501
SECAM Y/C M-NYSC Y SEPARATOR
DL5501
DIGITAL COMB FILTER Y/C SEPARATOR
IC5501
From IC1213 on A-BORAD
To T-BORAD (TEXT)
H3
L1
VM COIL
VM
L
CRT
CRT DRIVE
V Y C
AV1 IN
AV3 IN
MONITOR OUT

Audio Block


IC2001
NICAM DEMODULATOR
FILTER
F
A
B1
IC101 VIF/SIF
IC201
X205 6.0MHz
X201 4.5MHZ
X202 5.5MHZ
X204 6.5MHz
SIF IN
AUDIO OUT
SIF SW
QIF OUT
QIF IN
Q105 AMP
X106 SAW FILTER
TUNER
QIF
RF
L OUT
R OUT
Q2006 AMP
Q2005 AMP
DATA
IC2002
NICAM DECODER
FM IN L CH
FM IN R CH
T2001 T2002
Q2105 AMP
X2106 5.74MHz
IC2102
GERMAN STEREO (SIF)
5.5MHz IN
IC2201
GERMAN STEREO DEMODULATOR
5.74MHz IN
IC1213 MPU
INVERTER
Q2374
AV2 IN
L
R
G1(G2)
K5(K10)
K1 (K2)
(K2:TX–24WG10X)
K3(K8)
K1(K6)
G
HEAD PHONE
Q2333 MUTING
Q2334 MUTING
IC2301
AUDIO CONTROL OUT
R IN
L IN
A4
D4
D
D13
X8
X2
A10
A11
H1
A12
H2
H
Z1
Z2
MUTE SIGNAL from IC1213 (MPU)
Q3015,Q3016
MUTING
M OUT R
M OUT L
AV2 IN R
AV2 IN L
TV1 IN R
TV1 IN L
IC3001
AV CONTROL SWITCHING
L OUT
R OUT
IC2401
L IN
SOUND PROCESSOR
R IN
L OUT
R OUT
Q2406 AMP
Q2408 AMP
IC2404
XBS AMP
AMP Q2407
IC2402
S–AI AMP
To IC1213 on A–BOARD (SOUND AI)
SPEAKER L
SPEAKER R
R
L
MONITOR OUT
AV1 IN
AV3 IN
SURROUND OUT

Control Block


G
DISP
RST
TV/AV
VOL.UP
VOL.DN
CH.UP
CH.DN
RM1047
G1 13 11
K5(K10) 3 11
K(K2)
(K2: TX-24WG10X)
K2(K7) 2 4
B1
SIF/VIF
IC2201
SCL1 3
SDA1 2
IC101
AGC SYNC AFC OUT APC
15 17 12 6
IC201
S1 S2
12 14
B1 1 2 B2 6 5 B3 6 8 B2 2 3
A24 1 2 A25 6 5 A26 6 8 A25 2 3
A
H1
IC602
SCL2 SDA2
9 10
IC3001
SCL3 SDA3
36 37
IC902
9
H1 3 4 24 25
A11 3 4 24 25
H1 21
A11 21
IC3501
IVT
R G B
44 45 47
SCL1 56
SDA1 57
BUFFER BUFFER BUFFER
Q3505 R3504 R3503
Q3566
IC3503
EEP ROM
SCL1 SDA1
6 5
IC3507
TEXT CONT.
SDA1 SCL1
2 3
T
T1 5 6 7 T2 7 T1 8 T2 8 5
A31 5 6 7 A32 7 A31 8 A32 8 5
IC701
SDA2
VP SCL2
13 9 10
X1
X4 3 4 5
D12 3 4 5
P
D
RL801
P3 D8
2 1
SW
Q852
D2 7 D3 4 5 6
A2 7 A3 4 5 6
IC1211
MEMORY
6 5
IC601
VCJ
13 SDA3
14 SCL3
64
TV TEXT 21
R G B
22 23 24
60 59 SCL1 SDA1
28 29 SDA3 SCL3
52 S1
53 S2
47 GAME OTHER
10 AFC
25 AGC D/L
35 CS (ENA)
50 DATA(SDD)
51 CLOCK(SBT)
1 RMT
2 KEY IN
14 MUTE
3 SOUND AI
30 SDA 2
31 SCL 2
54 RESET
IC1213
MPU
ON SCREEN R 44 G 43 B 42
BLK 41
AI ON OFF 40
STOP SYNC 7
V.SYNC. 55
ON OFF STB 33
SYS4 56
SYS2 36
SYS1 37
SHARP 20
60/50 15
TUNER
TN001
IC2301
AUDIO AMP
11
Q1206
Q401
Q402
IC1212
RST
1
A9 4 2
Z
IC2402
7
Q2402 Q2401
Z2 4 Z2 4
IC2401 SCL2 14
SOUND PROCESS
SDA2 15
Z1 2 1 Z1 2 1
F
IC2002
NICAM MPU
SDA2 4
SCL2 3
F1 3 2 A21 3 2
A40 2
Y1 2
Q3621/3622
A42 1
Y3 1
IC5501
14 10 15
IC5504
1 SYS4
2 SYS2
3 SYS1
A41 Y2 7 7 2 2
5 5 A42 Y3 3 3
1 1 A41 Y2
IC3603
8
IC3301
19 SHARP
25
Y1

Schematic Diagram for model TX–24/28WG10X (M17W Chassis)

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacture's specified parts.

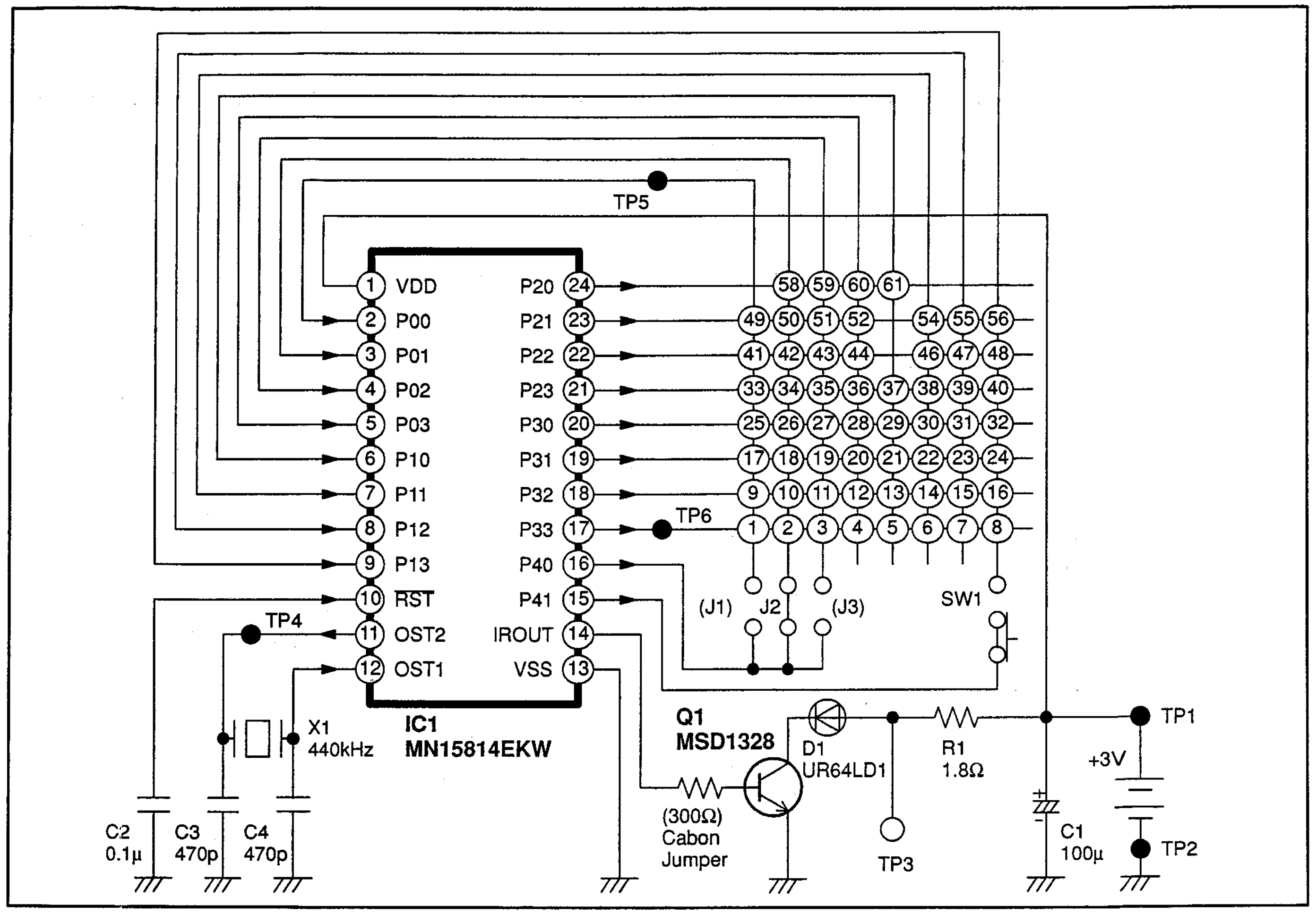
Notes :

1. Resistor
   All resistors are carbon 1/4W resistor, unless marked as follows :
   Unit of resistance is OHM [Ω } (K=1,000 , M=1,000,000).
   - ○ : Nonflammable
   - △ : Solid
   - ▱ : Wire Wound
   - ⊠ : Metal Oxide
   - ◎ : Metal Film
   - ⊗ : Fuse
2. Capacitor
   All capacitors are ceramic 50V capacitor, unless marked as follows :
   Unit of capacitance is µF, unless otherwise noted.
   - ⊗ : Temperature Compensation
   - Ⓜ : Polyester
   - ⓜ : Metalized Polyester
   - ⊠ : Polypropylene
   - +⫩− : Electrolytic
   - NP⫩ : Bipolar
   - Ⓣ : Dipped Tantalum
   - Ⓩ : Z–Type
3. Coil
   Unit of inductance is µH, unless otherwise noted.
4. Test Point
   - ⚲ : Test Point position
5. Earth Symbol
   - ⏚ : Chassis Earth (Cold)
   - ⊥ : Line Earth (Hot)
6. Voltage Measurement
   Voltage is measured by a DC voltmeter.
   Conditions of the measurement are the following :
   Power Source .... AC 220V, 50Hz
   Receiving Signal .... Colour Bar signal (RF)
   All customer's controls .... Maximum positions
7. Number in red circle indicates waveform number.
   (See waveform pattern table.)
8. When arrow mark (↗) is found, connection is easily found from the direction of arrow.
9. Indicates the major signal flow. : Video ➡ Audio ⇨
10. This schematic diagram is the latest at the time of printing and subject to change without notice.

Remarks :

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.
   The circuit is defined by HOT and COLD indications in the schematic diagram. Take the following precautions.
   All circuits, except the Power Circuit, are cold.
   Precautions
   a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
   b. Do not short-circuit the hot and cold circuits or a fuse may blow and parts may break.
   c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
   Connect the earth of instruments to the earth connection of the circuit being measured.
   d. Make sure to disconnect the power plug before removing the chassis.
2. Following diodes are interchangeable.
   MA150 – MA162 (Replacement part)

Remote Controller EUR51905

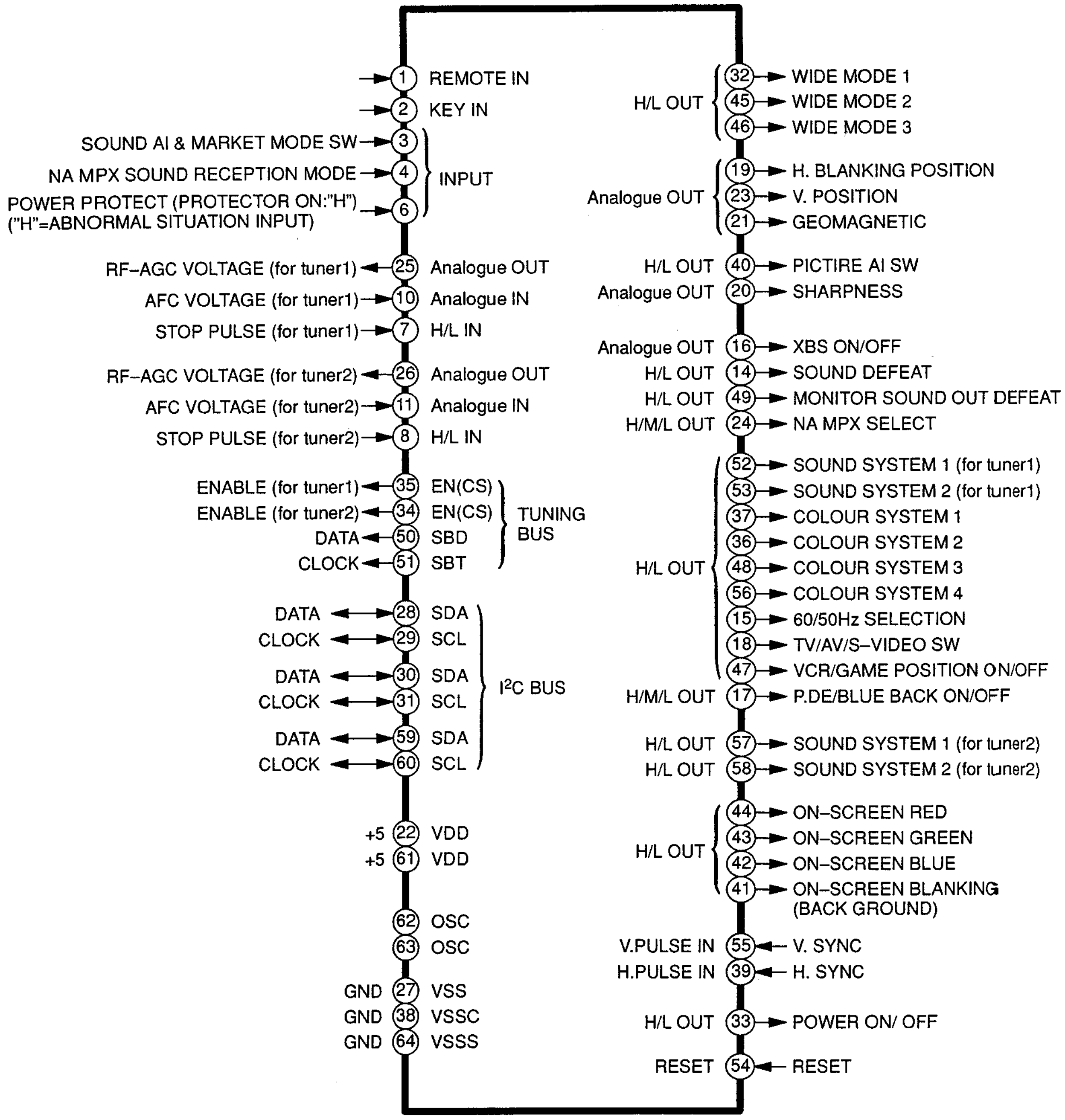


Key Function Table

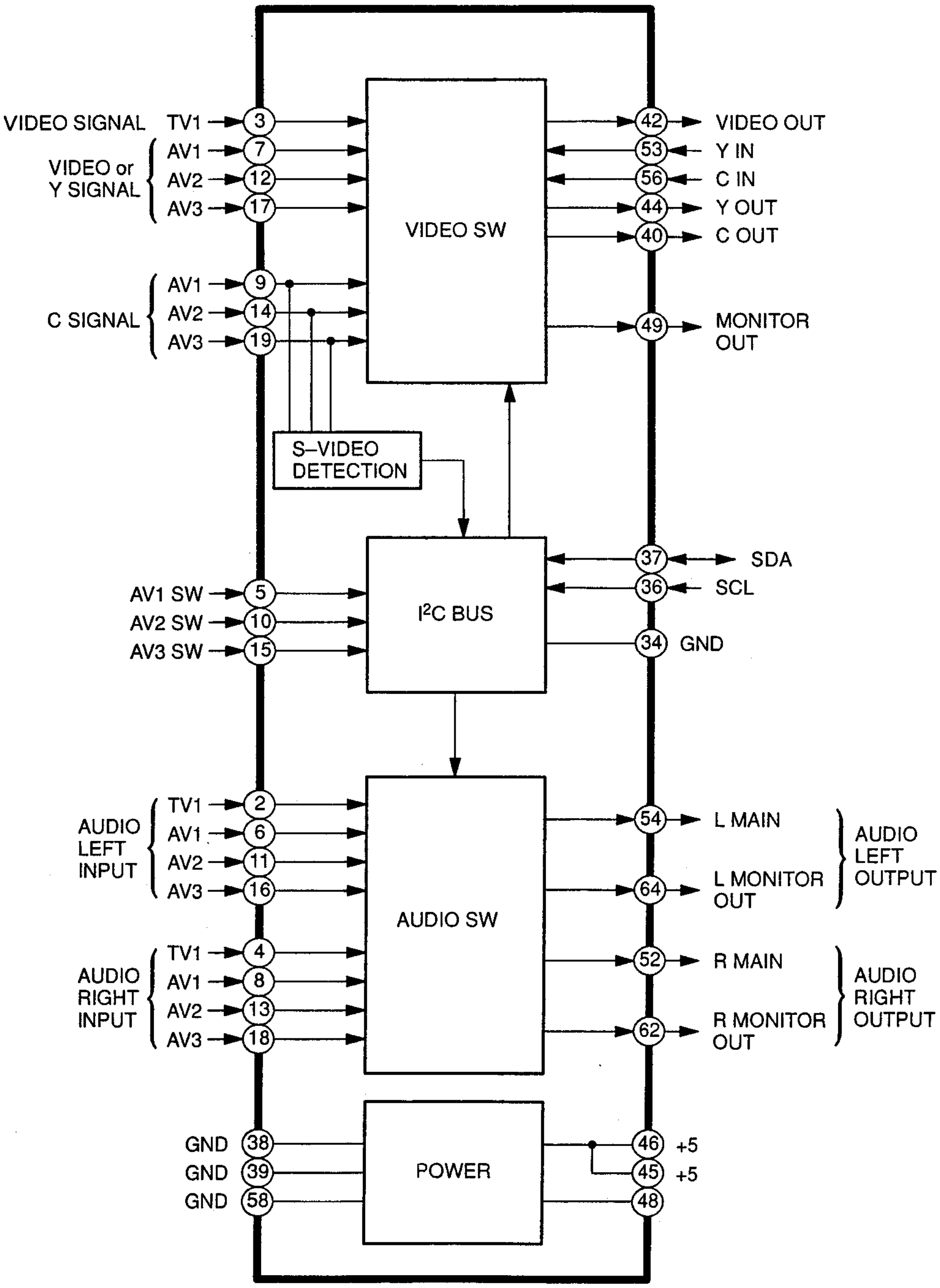
Key No.	Function	Key No.	Function	Key No.	Function
1	POWER ON/OFF	23	YELLOW	45	——
2	1	24	VCR-STOP	46	▶
3	4	25	TV/AV	47	NORMAL
4	7	26	POS. UP	48	▼
5	RECALL	27	POS. DOWN	49	SOUND MENU
6	TEXT/TV	28	VOL UP	50	OFF TIMER
7	RED	29	VOL DOWN	51	SURROUND
8	VCR-REW	30	HOLD	52	A/B(ST/MONO)
9	WIDE	31	CYAN	53	——
10	2	32	VCR-F.F	54	TIME TEXT
11	5	33	VCR-POWER	55	DISP CANCEL
12	8	34	VCR-TV/VCR	56	STORE LIST
13	0	35	VCR-PAUSE	57	——
14	F.P	36	VCR-ADVANCE	58	REVEAL
15	GREEN	37	VCR-REC	59	RESET
16	VCR-PLAY	38	VCR-REC	60	SIZE (F/T/B)
17	MUTE	39	VCR-CH UP	61	LIST/TOP.FLOF
18	3	40	VCR-CH DOWN	62	——
19	6	41	MAIN MENU	63	——
20	9	42	▲	64	——
21	2 DIGIT	43	PICTURE MENU	65	——
22	INDEX	44	◀	66	——

Block Diagram for Integrated Circuit

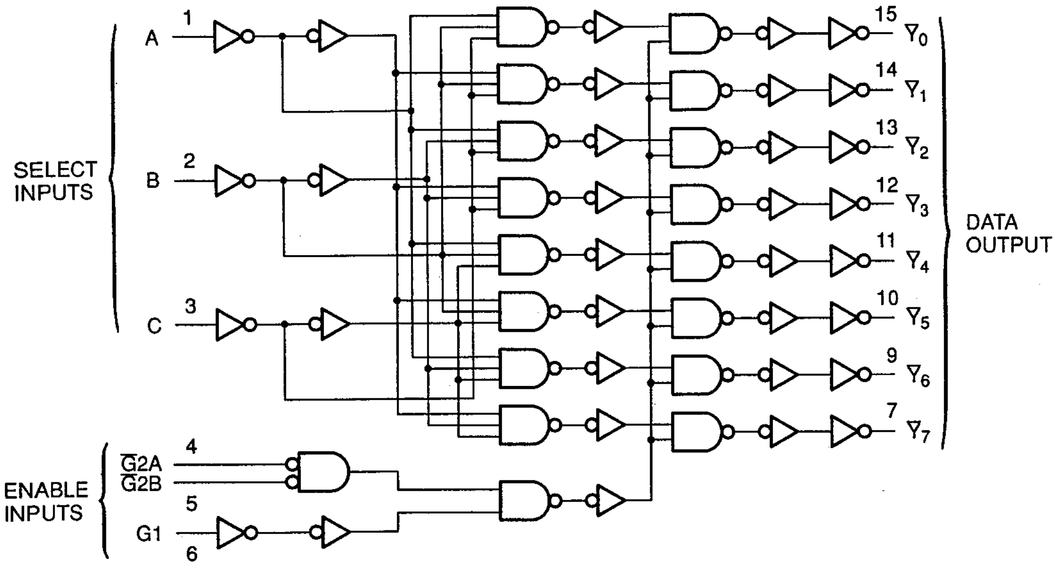
IC1213(MPU : MN1874033T2T)


1 REMOTE IN
2 KEY IN
SOUND AI & MARKET MODE SW 3
NA MPX SOUND RECEPTION MODE 4
POWER PROTECT (PROTECTOR ON:"H")
("H"=ABNORMAL SITUATION INPUT) 6
INPUT
RF-AGC VOLTAGE (for tuner1) 25 Analogue OUT
AFC VOLTAGE (for tuner1) 10 Analogue IN
STOP PULSE (for tuner1) 7 H/L IN
RF-AGC VOLTAGE (for tuner2) 26 Analogue OUT
AFC VOLTAGE (for tuner2) 11 Analogue IN
STOP PULSE (for tuner2) 8 H/L IN
ENABLE (for tuner1) 35 EN(CS)
ENABLE (for tuner2) 34 EN(CS)
DATA 50 SBD
CLOCK 51 SBT
TUNING BUS
DATA 28 SDA
CLOCK 29 SCL
DATA 30 SDA
CLOCK 31 SCL
DATA 59 SDA
CLOCK 60 SCL
I²C BUS
+5 22 VDD
+5 61 VDD
62 OSC
63 OSC
GND 27 VSS
GND 38 VSSC
GND 64 VSSS
H/L OUT 32 WIDE MODE 1
45 WIDE MODE 2
46 WIDE MODE 3
Analogue OUT 19 H. BLANKING POSITION
23 V. POSITION
21 GEOMAGNETIC
H/L OUT 40 PICTIRE AI SW
Analogue OUT 20 SHARPNESS
Analogue OUT 16 XBS ON/OFF
H/L OUT 14 SOUND DEFEAT
H/L OUT 49 MONITOR SOUND OUT DEFEAT
H/M/L OUT 24 NA MPX SELECT
H/L OUT 52 SOUND SYSTEM 1 (for tuner1)
53 SOUND SYSTEM 2 (for tuner1)
37 COLOUR SYSTEM 1
36 COLOUR SYSTEM 2
48 COLOUR SYSTEM 3
56 COLOUR SYSTEM 4
15 60/50Hz SELECTION
18 TV/AV/S-VIDEO SW
47 VCR/GAME POSITION ON/OFF
H/M/L OUT 17 P.DE/BLUE BACK ON/OFF
H/L OUT 57 SOUND SYSTEM 1 (for tuner2)
H/L OUT 58 SOUND SYSTEM 2 (for tuner2)
H/L OUT 44 ON-SCREEN RED
43 ON-SCREEN GREEN
42 ON-SCREEN BLUE
41 ON-SCREEN BLANKING
(BACK GROUND)
V.PULSE IN 55 V. SYNC
H.PULSE IN 39 H. SYNC
H/L OUT 33 POWER ON/ OFF
RESET 54 RESET

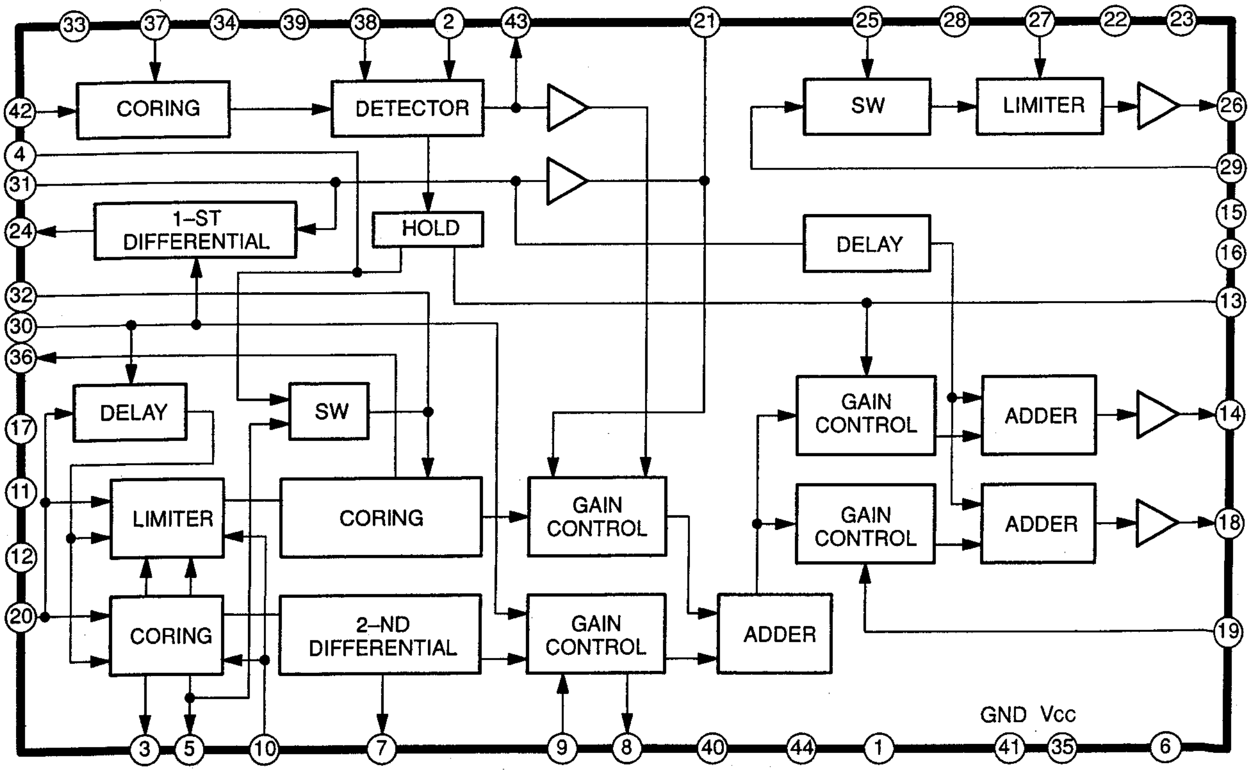
IC3001
(AV CONTROL SW : SN103848PG)


VIDEO SIGNAL
TV1
3
VIDEO or Y SIGNAL
AV1
7
AV2
12
AV3
17
C SIGNAL
AV1
9
AV2
14
AV3
19
VIDEO SW
42
VIDEO OUT
53
Y IN
56
C IN
44
Y OUT
40
C OUT
49
MONITOR OUT
S–VIDEO DETECTION
AV1 SW
5
AV2 SW
10
AV3 SW
15
I²C BUS
37
SDA
36
SCL
34
GND
AUDIO LEFT INPUT
TV1
2
AV1
6
AV2
11
AV3
16
AUDIO RIGHT INPUT
TV1
4
AV1
8
AV2
13
AV3
18
AUDIO SW
54
L MAIN
64
L MONITOR OUT
AUDIO LEFT OUTPUT
52
R MAIN
62
R MONITOR OUT
AUDIO RIGHT OUTPUT
GND
38
GND
39
GND
58
POWER
46
+5
45
+5
48

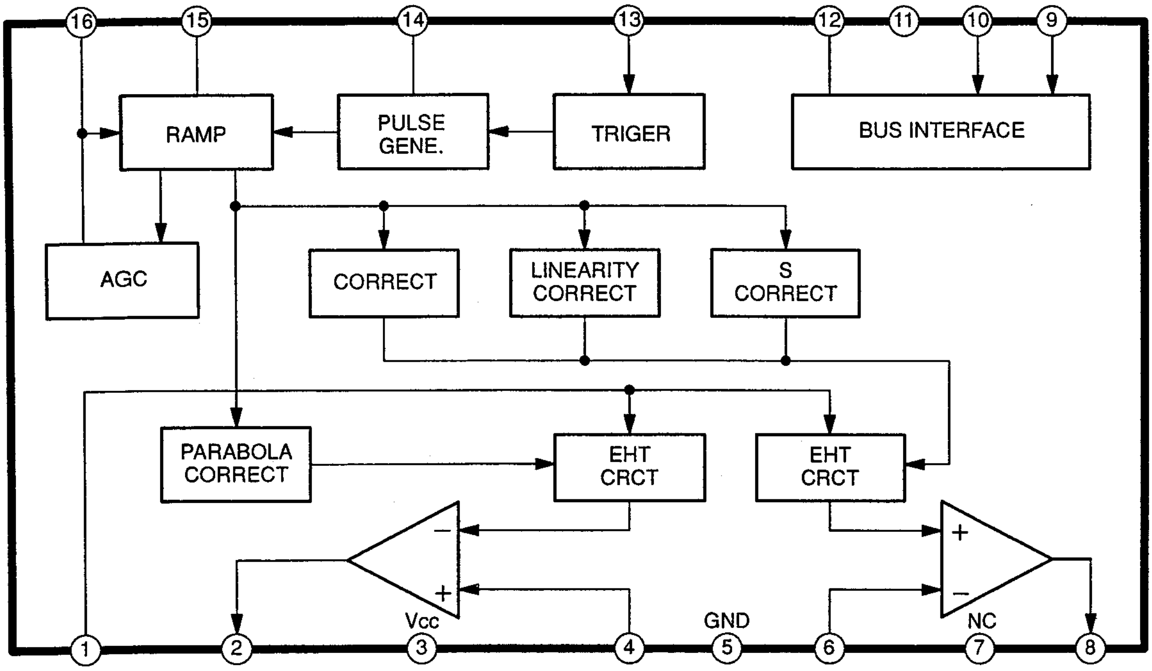
IC5504
(3 TO 8 LINE DECODER : SN74HC138NS)


SELECT INPUTS
A
1
B
2
C
3
ENABLE INPUTS
$\overline{G2A}$
$\overline{G2B}$
4
5
G1
6
15
$\overline{Y}_0$
14
$\overline{Y}_1$
13
$\overline{Y}_2$
12
$\overline{Y}_3$
11
$\overline{Y}_4$
10
$\overline{Y}_5$
9
$\overline{Y}_6$
7
$\overline{Y}_7$
DATA OUTPUT

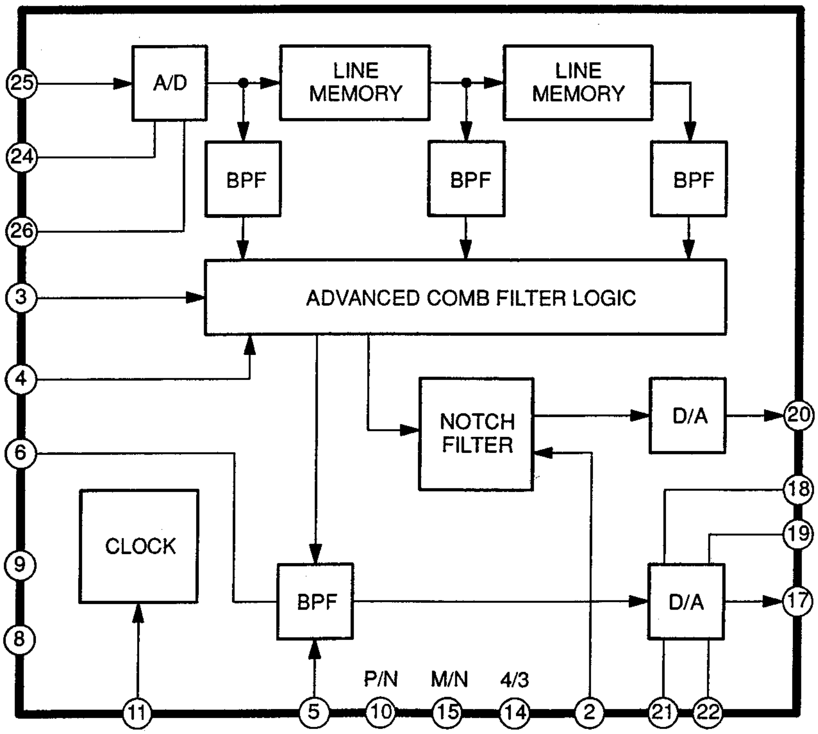
IC3301
(HORI. SHARPNESS : AN5342FBP)


33
37
34
39
38
2
43
21
25
28
27
22
23
42
CORING
DETECTOR
SW
LIMITER
26
4
31
29
24
1-ST DIFFERENTIAL
HOLD
DELAY
15
16
32
13
30
36
GAIN CONTROL
ADDER
14
17
DELAY
SW
11
LIMITER
CORING
GAIN CONTROL
GAIN CONTROL
ADDER
18
12
20
CORING
2-ND DIFFERENTIAL
GAIN CONTROL
ADDER
19
GND
Vcc
3
5
10
7
9
8
40
44
1
41
35
6

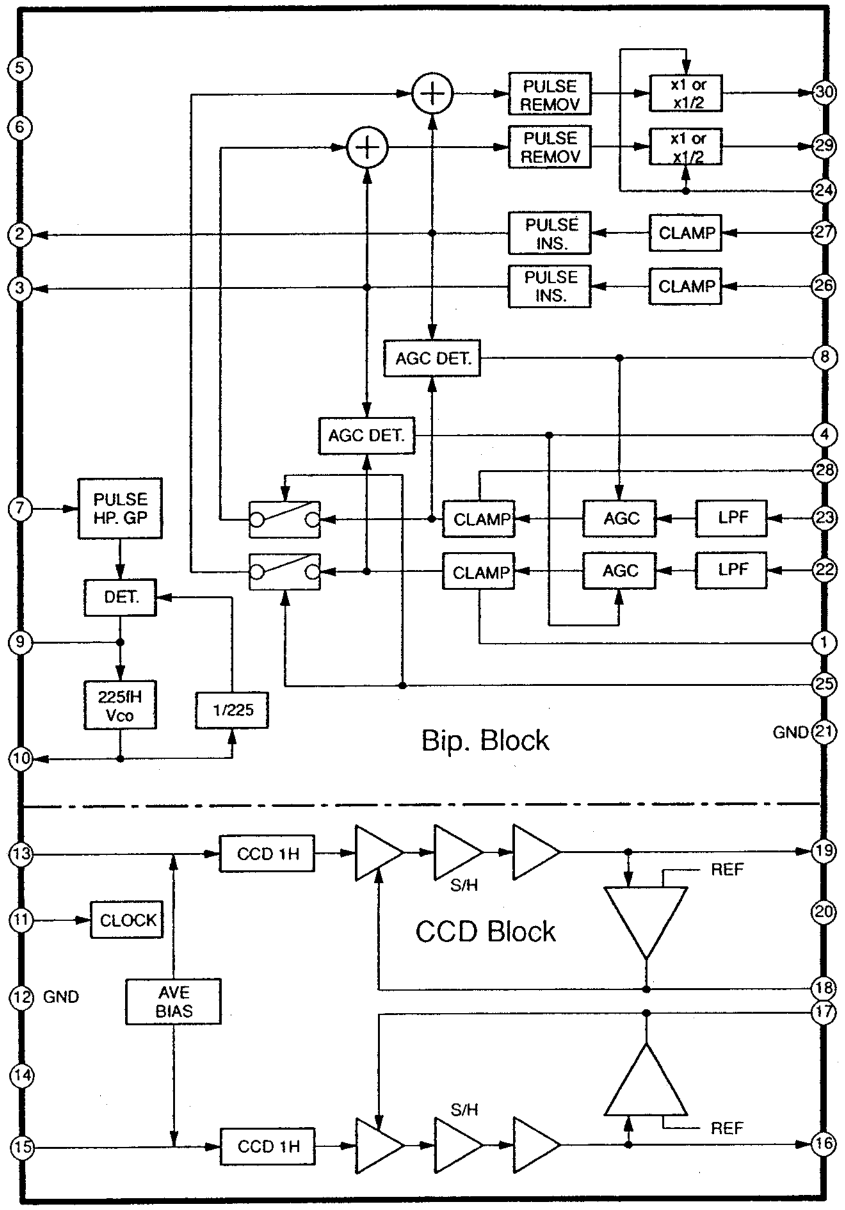
IC701
(PINCUSHION CONTROL : TA8859AP)


16
15
14
13
12
11
10
9
RAMP
PULSE GENE.
TRIGER
BUS INTERFACE
AGC
CORRECT
LINEARITY CORRECT
S CORRECT
PARABOLA CORRECT
EHT CRCT
EHT CRCT
–
+
+
–
Vcc
GND
NC
1
2
3
4
5
6
7
8

IC5501
(DIGITAL COMB FILTER : MN8236)

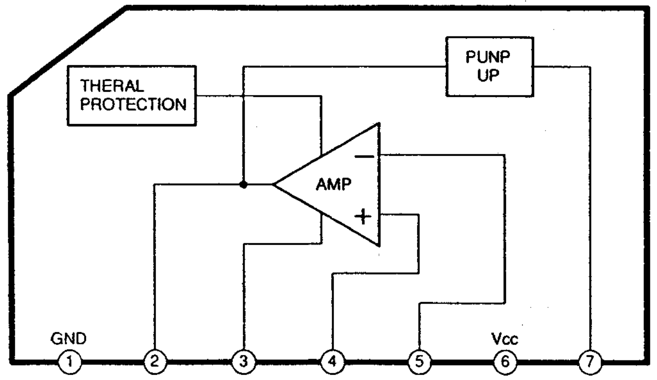

25
24
26
3
4
6
9
8
A/D
LINE MEMORY
LINE MEMORY
BPF
BPF
BPF
ADVANCED COMB FILTER LOGIC
NOTCH FILTER
D/A
D/A
CLOCK
BPF
20
18
19
17
P/N
M/N
4/3
11
5
10
15
14
2
21
22

IC603
(BASE BAND DL : TA8772AN)

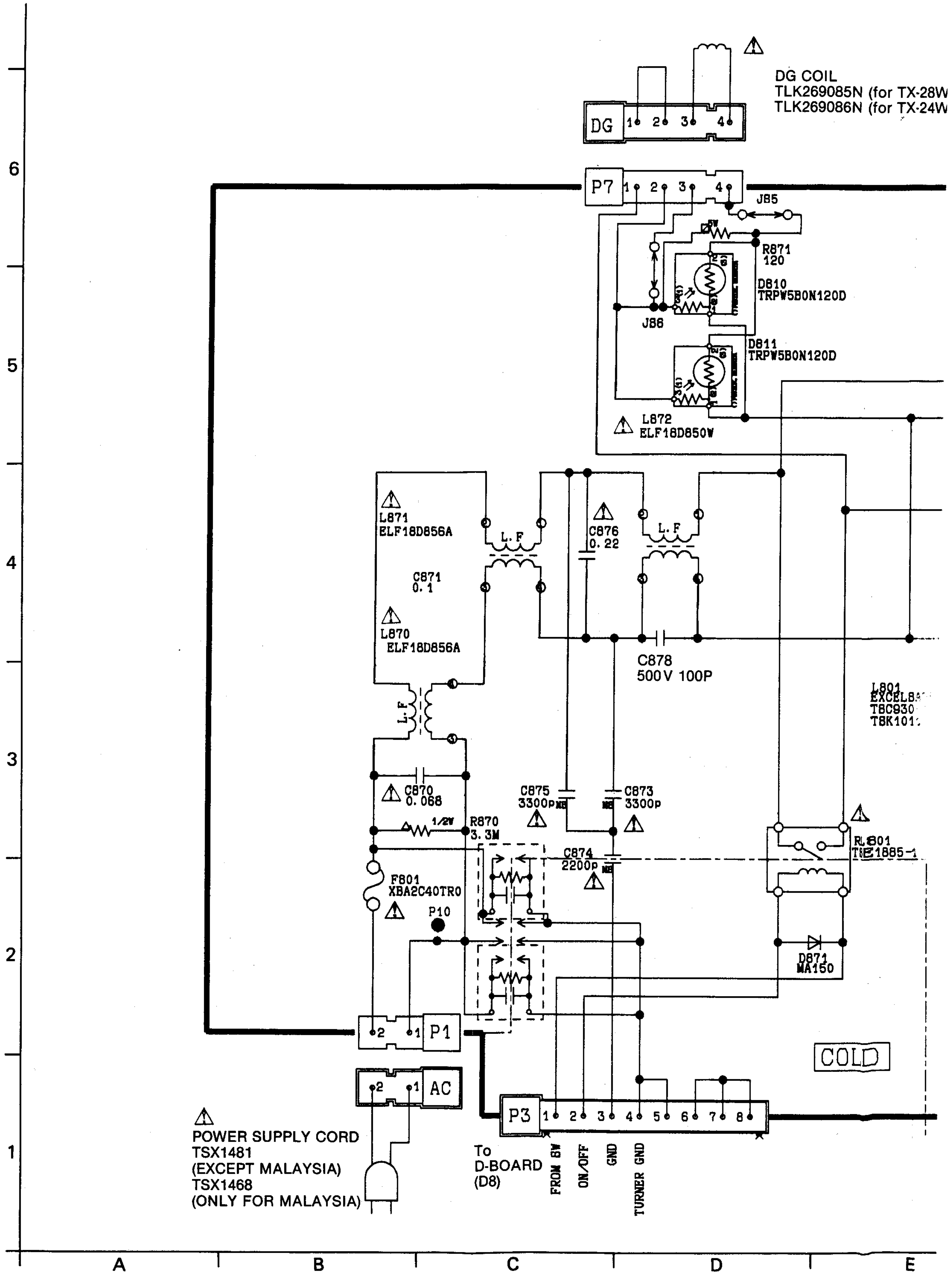


PULSE REMOV
PULSE REMOV
x1 or x1/2
x1 or x1/2
PULSE INS.
PULSE INS.
CLAMP
CLAMP
AGC DET.
AGC DET.
PULSE HP. GP
DET.
225fH Vco
1/225
CLAMP
CLAMP
AGC
AGC
LPF
LPF
Bip. Block
GND
CCD 1H
CLOCK
GND
AVE BIAS
S/H
REF
CCD Block
CCD 1H
S/H
REF

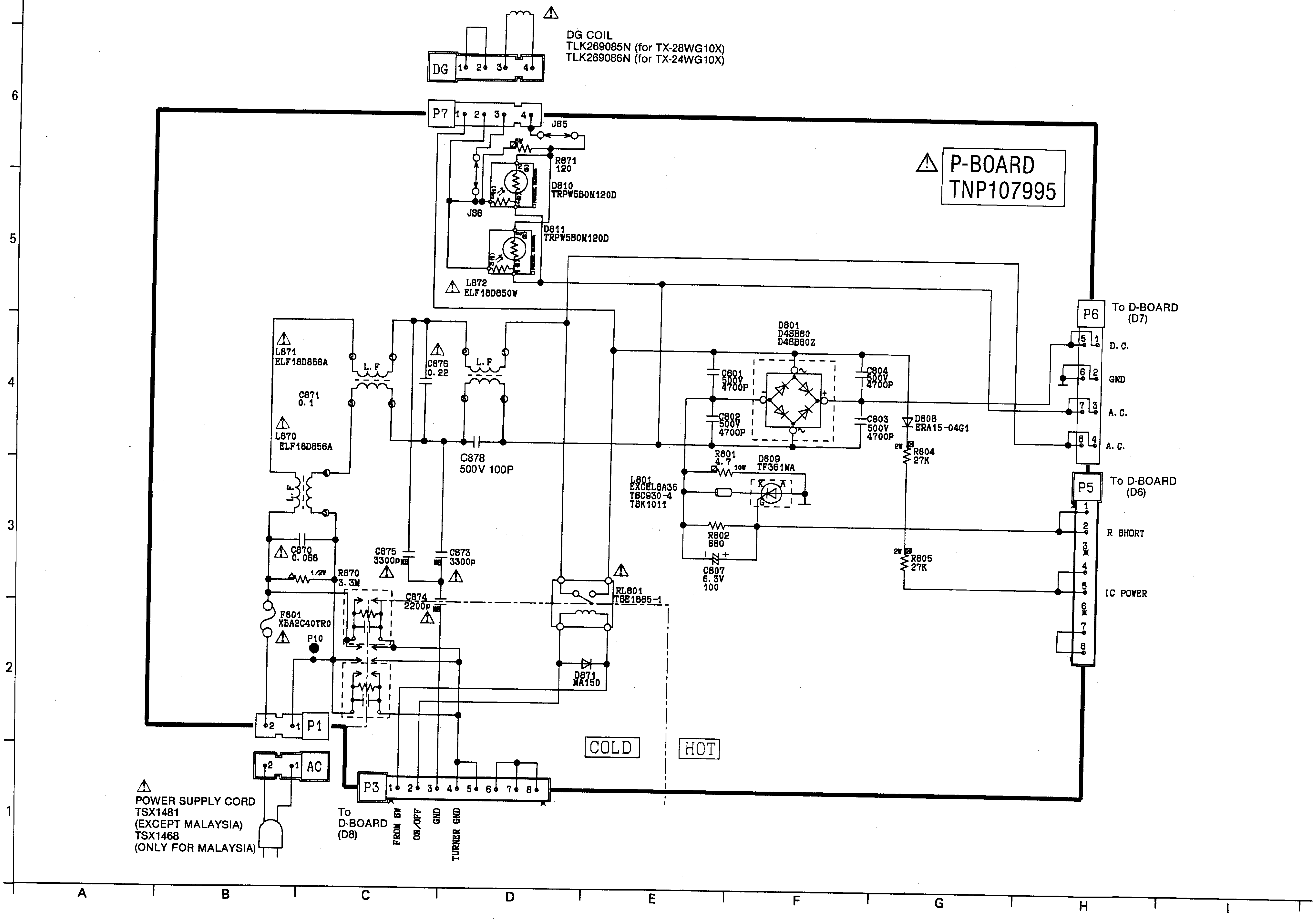
IC452
(V–OUT : LA7845)

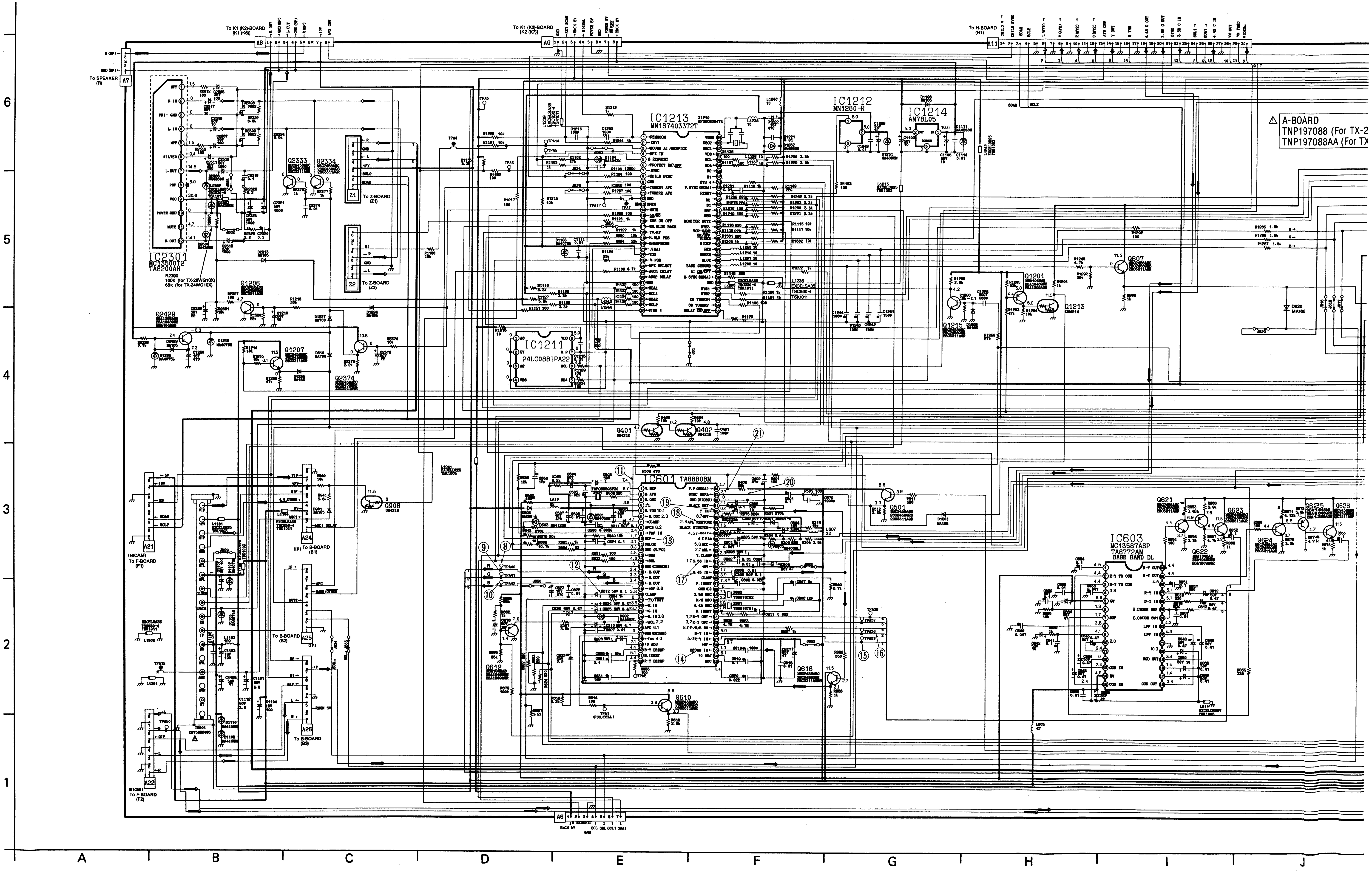


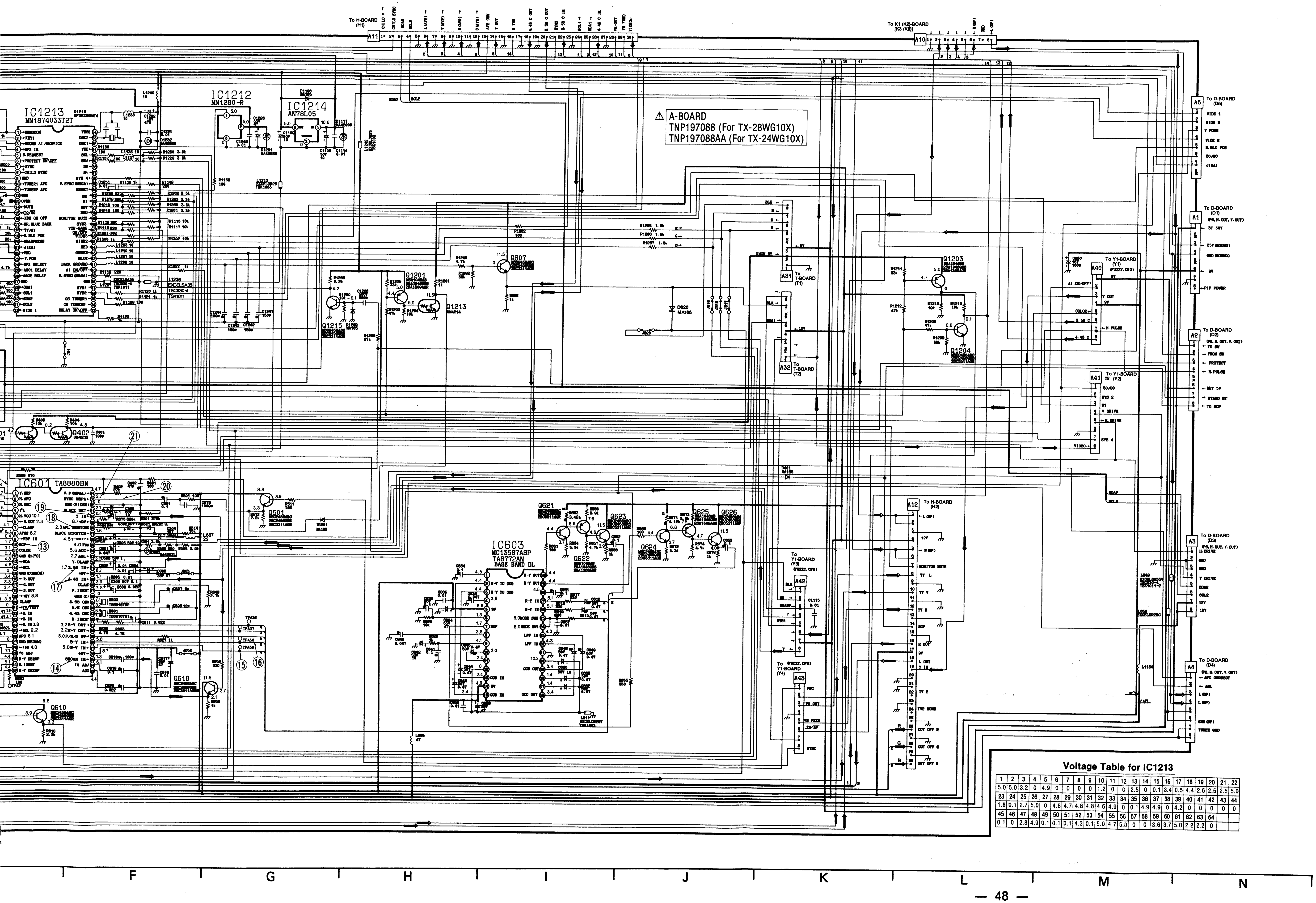
THERAL PROTECTION
PUNP UP
AMP
GND
Vcc



DG COIL
TLK269085N (for TX-28W
TLK269086N (for TX-24W
DG
P7
J85
R871 120
D810 TRPW5B0N120D
J86
D811 TRPW5B0N120D
L872 ELF18D850W
L871 ELF18D856A
L.F
C876 0.22
L.F
C871 0.1
L870 ELF18D856A
C878 500V 100P
L801
L.F
C870 0.068
C875 3300p
C873 3300p
R870 3.3M
1/2W
C874 2200p
RL801
F801 XBA2C40TR0
P10
D871 MA150
P1
AC
COLD
P3
POWER SUPPLY CORD TSX1481 (EXCEPT MALAYSIA) TSX1468 (ONLY FOR MALAYSIA)
To D-BOARD (D8)
FROM 6W
ON/OFF
GND
TURNER GND
A
B
C
D
E
1
2
3
4
5
6


DG COIL
TLK269085N (for TX-28WG10X)
TLK269086N (for TX-24WG10X)
DG
1
2
3
4
P7
J85
5W
R871
120
D810
TRPW5B0N120D
J86
D811
TRPW5B0N120D
L872
ELF18D850W
P-BOARD
TNP107995
To D-BOARD
(D7)
P6
D. C.
GND
A. C.
A. C.
5
1
6
2
7
3
8
4
D801
D4SB80
D4SB80Z
C801
500V
4700P
C802
500V
4700P
C804
500V
4700P
C803
500V
4700P
D808
ERA15-04G1
2W
R804
27K
R801
4.7
10W
D809
TF361MA
K
A
G
L801
EXCELSA35
TSC930-4
TSK1011
R802
680
C807
6.3V
100
2W
R805
27K
To D-BOARD
(D6)
P5
1
2
R SHORT
3
4
5
IC POWER
6
7
8
L871
ELF18D856A
C871
0.1
L870
ELF18D856A
L.F
L.F
L.F
C876
0.22
C878
500V 100P
C870
0.068
1/2W
R870
3.3M
C875
3300p
C873
3300p
C874
2200p
F801
XBA2C40TR0
P10
RL801
TSE1885-1
D871
MA150
COLD
HOT
P1
2
1
AC
2
1
POWER SUPPLY CORD
TSX1481
(EXCEPT MALAYSIA)
TSX1468
(ONLY FOR MALAYSIA)
To
D-BOARD
(D8)
P3
1
2
3
4
5
6
7
8
FROM SW
ON/OFF
GND
TURNER GND
6
5
4
3
2
1
A
B
C
D
E
F
G
H
I

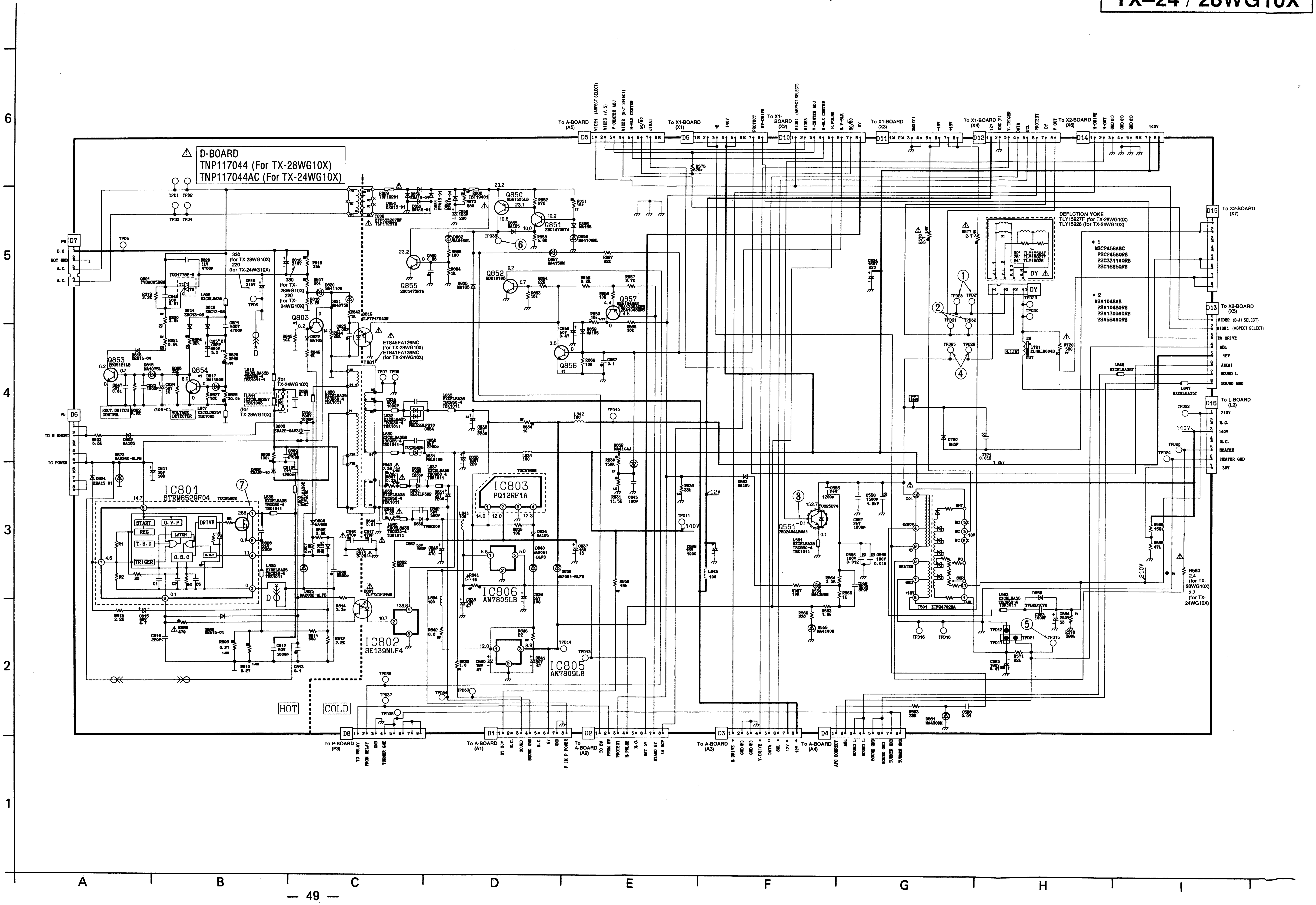

⚠ A-BOARD
TNP197088 (For TX-2
TNP197088AA (For TX
To K1 (K2)-BOARD [K1 (K6)]
A8
To K1 (K2)-BOARD [K2 (K7)]
A9
To H-BOARD (H1)
A11
To SPEAKER (R)
A7
IC2301
MC13500T2
TA8200AH
R2390
100k (for TX-28WG10X)
68k (for TX-24WG10X)
Q2333
Q2334
To Z-BOARD (Z1)
Z1
To Z-BOARD (Z2)
Z2
Q1206
Q2429
Q1207
Q2374
IC1213
MN1874033T2T
IC1211
24LC08BIPA22
IC1212
MN1280-R
IC1214
AN78L05
Q1201
Q1213
Q1215
Q607
D620
MA165
Q401
Q402
IC601
TA8880BN
Q501
Q908
Q612
Q610
Q618
IC603
MC13587ASP
TA8772AN
BASE BAND DL
Q621
Q622
Q623
Q624
Q625
Q626
A21
(NICAM) To F-BOARD (F1)
A22
(SIGMA) To F-BOARD (F2)
A24
(IF) To B-BOARD (B1)
A25
To B-BOARD (B2)
A26
To B-BOARD (B3)
A6
TPA1 (FSC/BELL)
6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
J

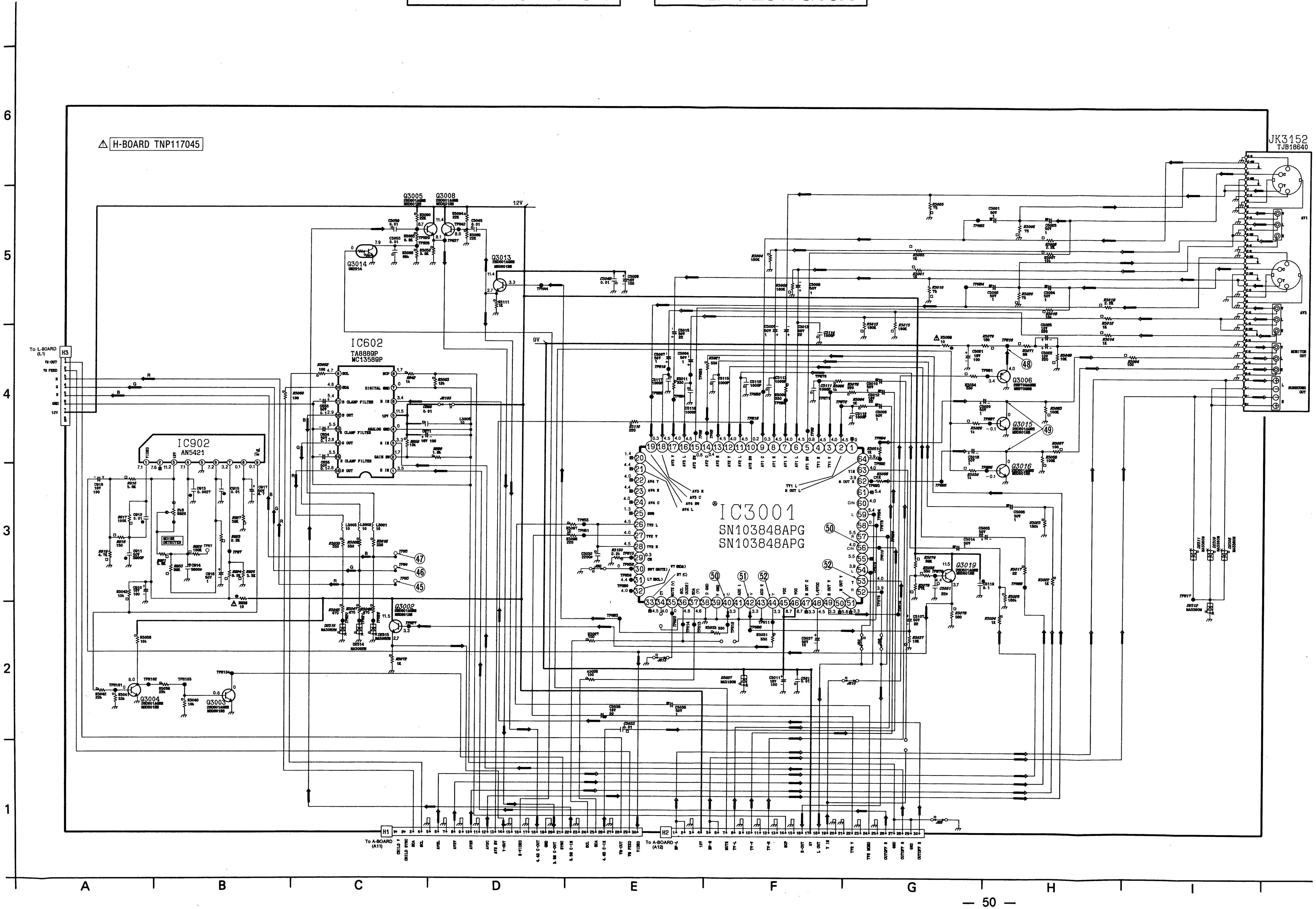

To H-BOARD (H1)
A11
To K1 (K2)-BOARD [K3 (K8)]
A10
IC1213
MN187403372T
IC1212
MN1280-R
IC1214
AN78L05
IC601
TA8880BN
IC603
MC13587ABP
TA8772AN
BASE BAND DL
Q1201
Q1203
Q1204
Q1213
Q1215
Q607
Q402
Q501
Q610
Q618
Q621
Q622
Q623
Q624
Q625
Q626
D620
MA165
To D-BOARD (D5)
A5
To D-BOARD (D1)
A1
To D-BOARD (D2)
A2
To D-BOARD (D3)
A3
To D-BOARD (D4)
A4
To T-BOARD (T1)
A31
To T-BOARD (T2)
A32
To Y1-BOARD (Y1)
A40
To Y1-BOARD Y2 (Y2)
A41
To Y1-BOARD (Y3)
A42
To Y1-BOARD (Y4)
A43
To H-BOARD (H2)
A12
F
G
H
I
J
K
L
M
N

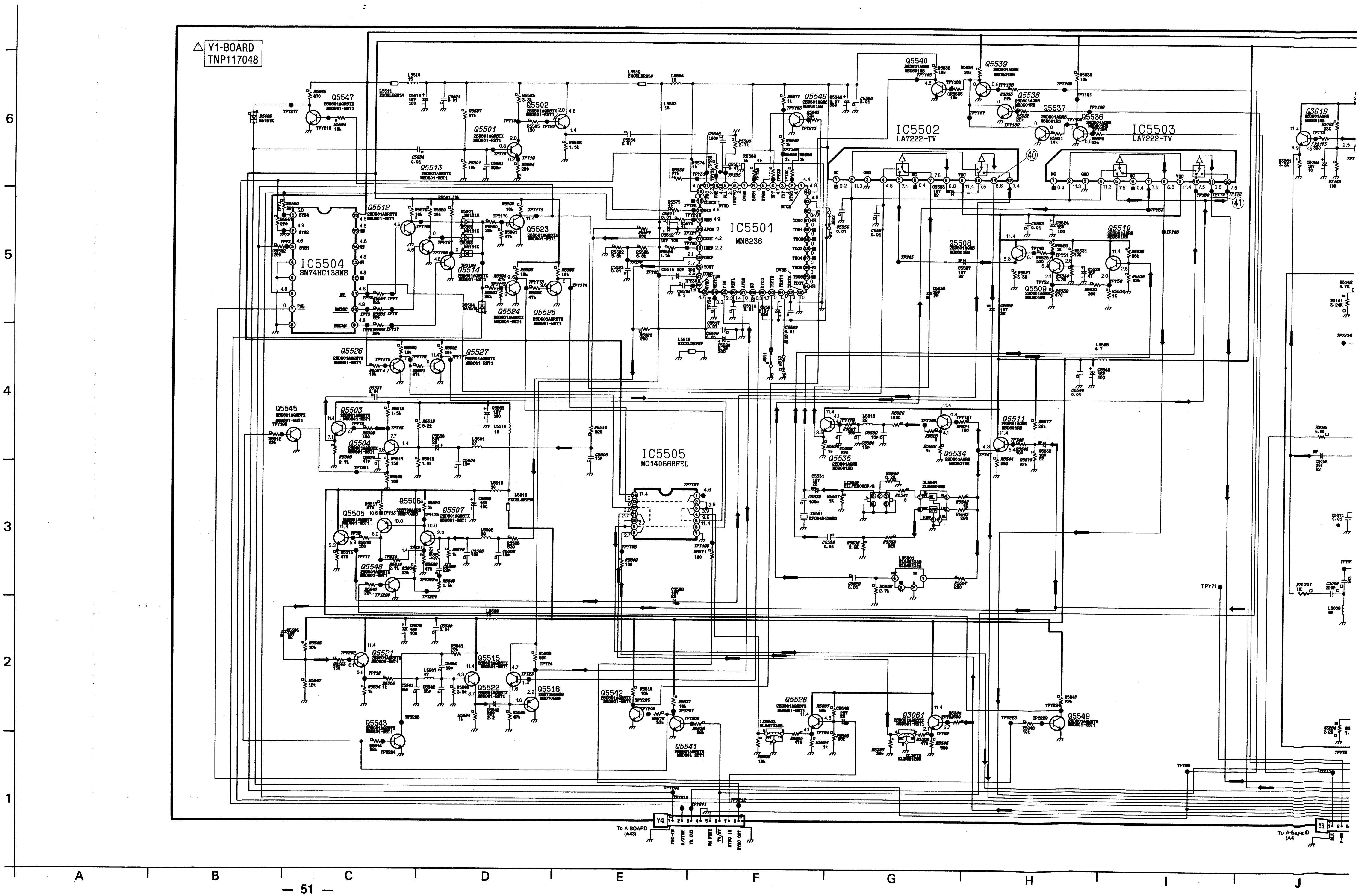
⚠ A-BOARD
TNP197088 (For TX-28WG10X)
TNP197088AA (For TX-24WG10X)

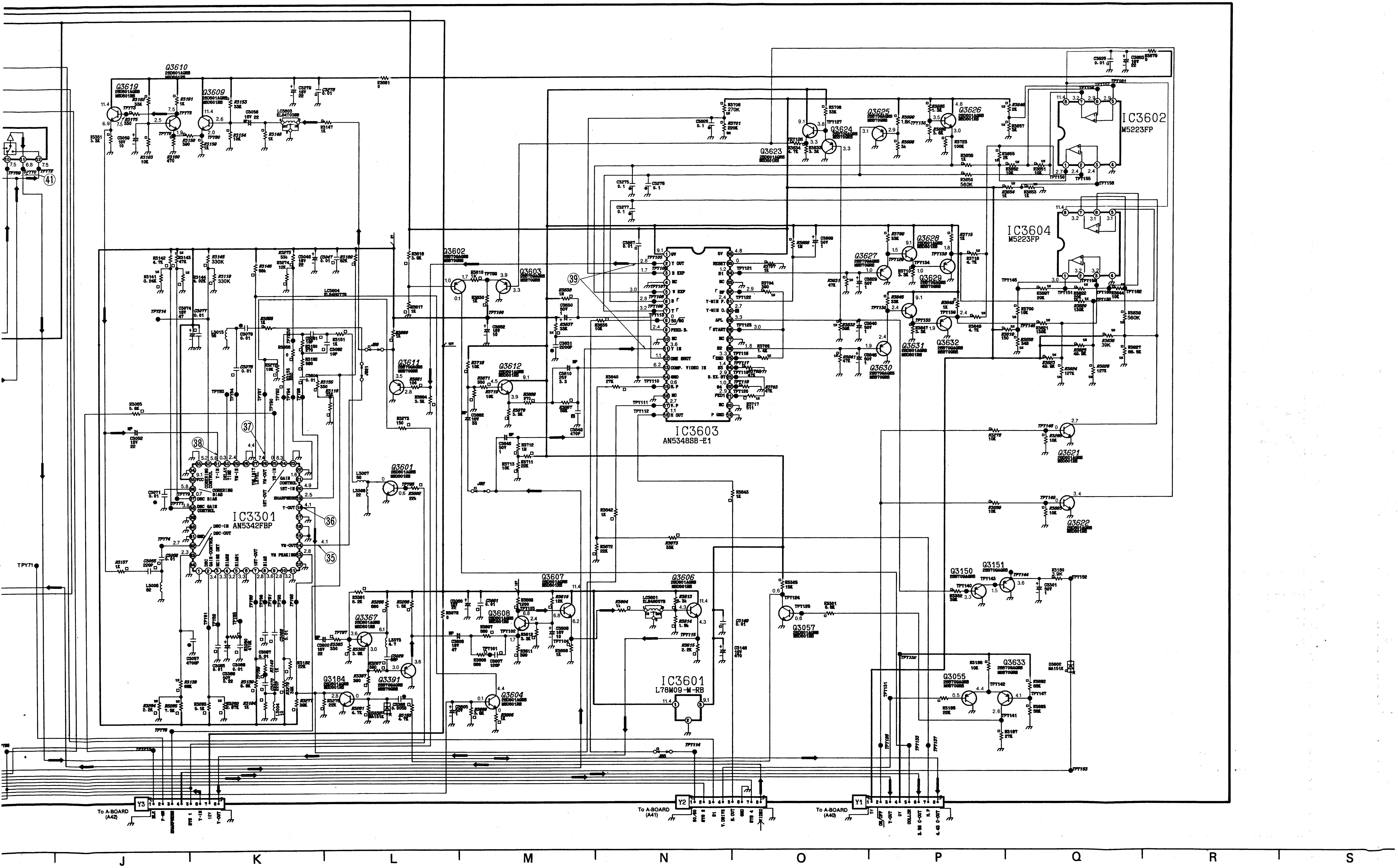
Voltage Table for IC1213

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
5.0	5.0	3.2	0	4.9	0	0	0	0	1.2	0	0	2.5	0	0.1	3.4	0.5	4.4	2.6	2.5	2.5	5.0
23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44
1.8	0.1	2.7	5.0	0	4.8	4.7	4.8	4.8	4.6	4.9	0	0.1	4.9	4.9	0	4.2	0	0	0	0	0
45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64		
0.1	0	2.8	4.9	0.1	0.1	0.1	4.3	0.1	5.0	4.7	5.0	0	0	3.6	3.7	5.0	2.2	2.2	0		

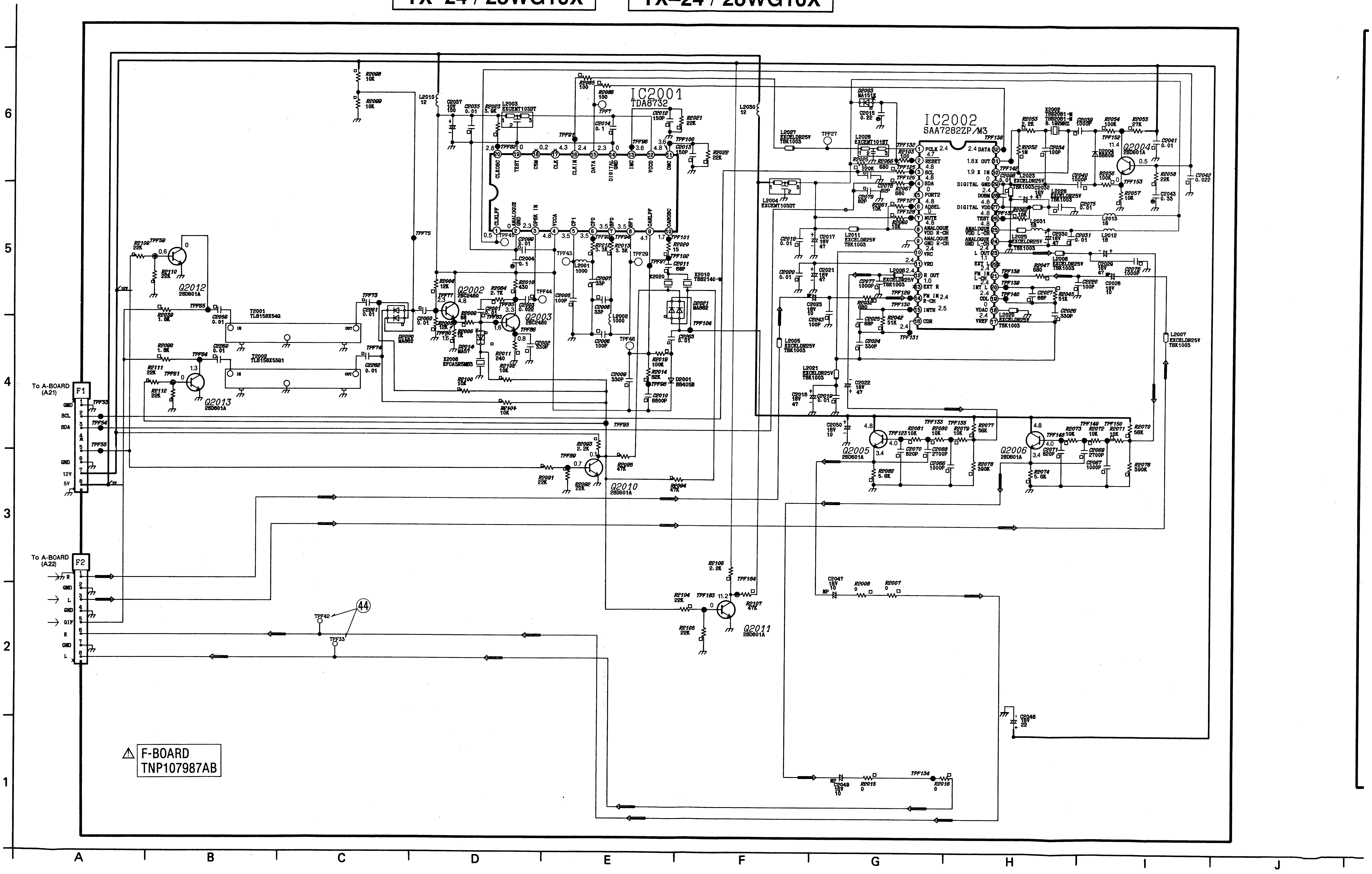

D-BOARD
TNP117044 (For TX-28WG10X)
TNP117044AC (For TX-24WG10X)
IC801
STRM6529F04
START
O.V.P
REG
LATCH
T.S.D
DRIVE
D.B.C
TRIGER
IC802
SE139NLF4
IC803
PQ12RF1A
IC806
AN7805LB
IC805
AN7809LB
Q850
Q851
Q852
Q853
Q854
Q855
Q856
Q857
Q803
Q551
T801
T501
DEFLCTION YOKE
TLY15927F (for TX-28WG10X)
TLY15926 (for TX-24WG10X)
DY
RECT. SWITCH CONTROL
VOLTAGE DETECTOR
HOT
COLD
To A-BOARD (A5)
To X1-BOARD (X1)
To X1-BOARD (X2)
To X1-BOARD (X3)
To X1-BOARD (X4)
To X2-BOARD (X6)
To X2-BOARD (X7)
To X2-BOARD (X5)
To L-BOARD (L3)
To P-BOARD (P3)
To A-BOARD (A1)
To A-BOARD (A2)
To A-BOARD (A3)
To A-BOARD (A4)
D1
D2
D3
D4
D5
D6
D7
D8
D9
D10
D11
D12
D13
D14
D15
D16
140V
12V
210V
1.2kV
ETS45FA126NC (for TX-28WG10X)
ETS41FA136NC (for TX-24WG10X)
* 1
MSC2458ABC
2SC2458QRS
2SC3311AQRS
2SC1685QRS
* 2
MSA1048AB
2SA1048QRS
2SA1309AQRS
2SA564AQRS
R580
2.4 (for TX-28WG10X)
2.7 (for TX-24WG10X)
①
②
③
④
⑤
⑥
⑦
A
B
C
D
E
F
G
H
I
1
2
3
4
5
6

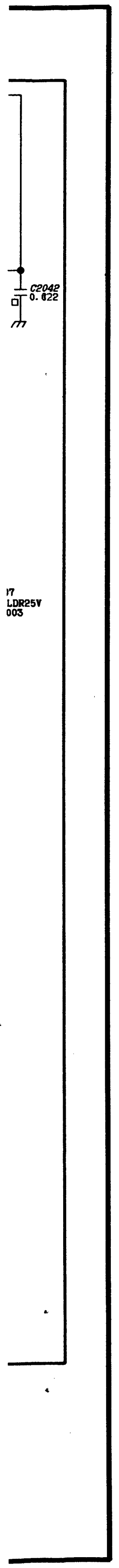

H-BOARD TNP117045
JK3152
TJB18640
IC602
TA8889P
MC13589P
IC902
AN5421
NOISE DETECTOR
IC3001
SN103848APG
SN103848APG
Q3005
Q3008
Q3013
Q3014
Q3002
Q3003
Q3004
Q3006
Q3015
Q3016
Q3019
12V
9V
To L-BOARD (L1)
H3
H1
To A-BOARD (A11)
H2
To A-BOARD (A12)
AV1
AV3
MONITOR OUT
SURROUND OUT
45
46
47
48
49
50
51
52
1
2
3
4
5
6
A
B
C
D
E
F
G
H
I

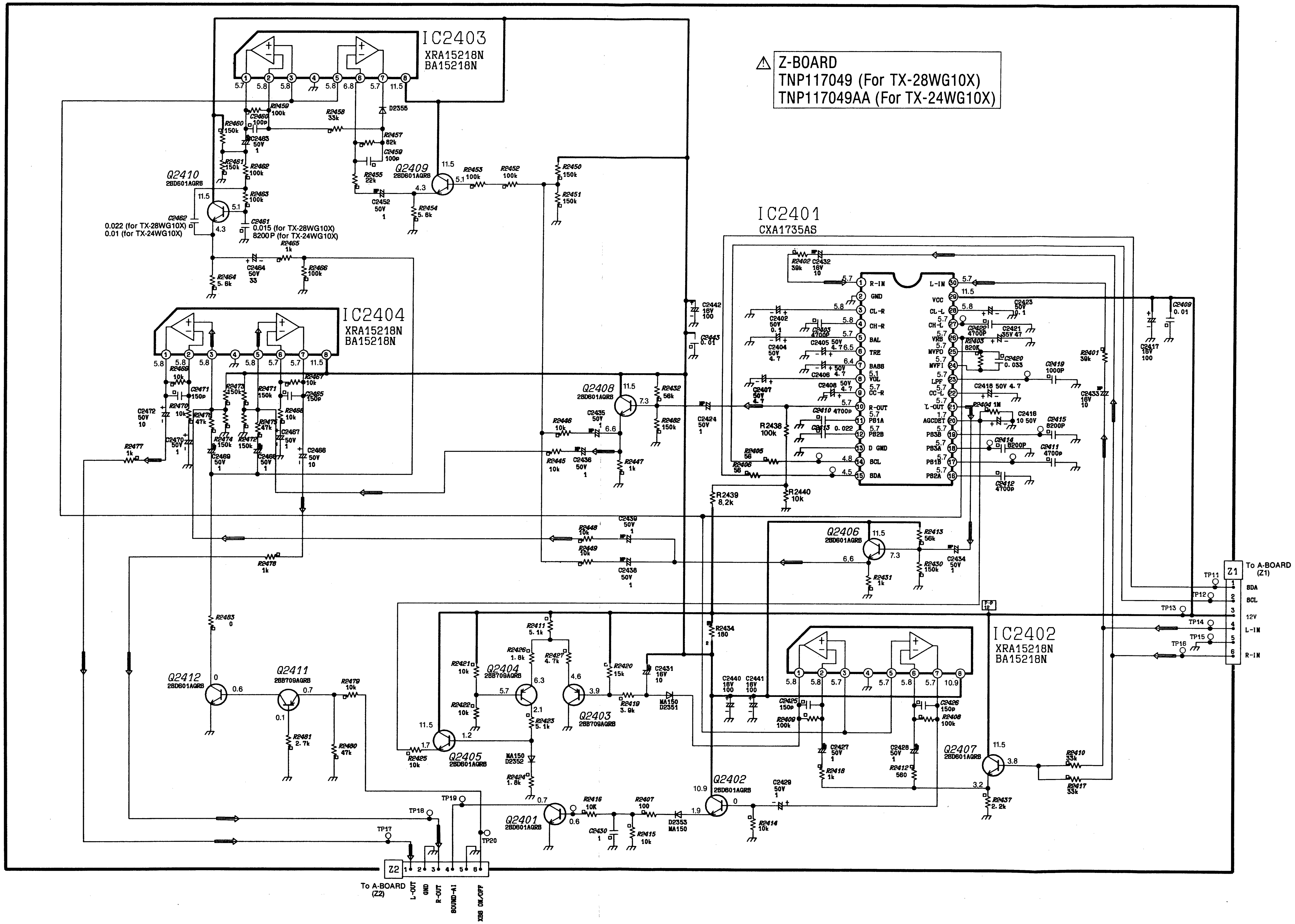

Y1-BOARD
TNP117048
IC5501
MN8236
IC5502
LA7222-TV
IC5503
LA7222-TV
IC5504
SN74HC138NS
IC5505
MC14066BFEL
Q5547
Q5501
Q5502
Q5513
Q5512
Q5514
Q5523
Q5524
Q5525
Q5526
Q5527
Q5545
Q5503
Q5504
Q5505
Q5506
Q5507
Q5548
Q5521
Q5515
Q5516
Q5522
Q5543
Q5542
Q5541
Q5528
Q3061
Q5549
Q5546
Q5540
Q5539
Q5538
Q5537
Q5536
Q5508
Q5509
Q5510
Q5511
Q5534
Q5535
Q3619
40
41
Y4
To A-BOARD (A43)
Y3
To A-BOARD
TPY71
A
B
C
D
E
F
G
H
I
J
1
2
3
4
5
6


Q3610
Q3619
Q3609
Q3602
Q3603
Q3611
Q3612
Q3601
Q3607
Q3606
Q3608
Q3367
Q3184
Q3391
Q3604
Q3623
Q3624
Q3625
Q3626
Q3627
Q3628
Q3629
Q3630
Q3631
Q3632
Q3621
Q3622
Q3150
Q3151
Q3057
Q3055
Q3633
IC3602
M5223FP
IC3604
M5223FP
IC3603
AN5348SB-E1
IC3301
AN5342FBP
IC3601
L78M09-M-RB
Y3
To A-BOARD (A42)
Y2
To A-BOARD (A41)
Y1
To A-BOARD (A40)
J
K
L
M
N
O
P
Q
R
S

TX-24 / 28WG10X

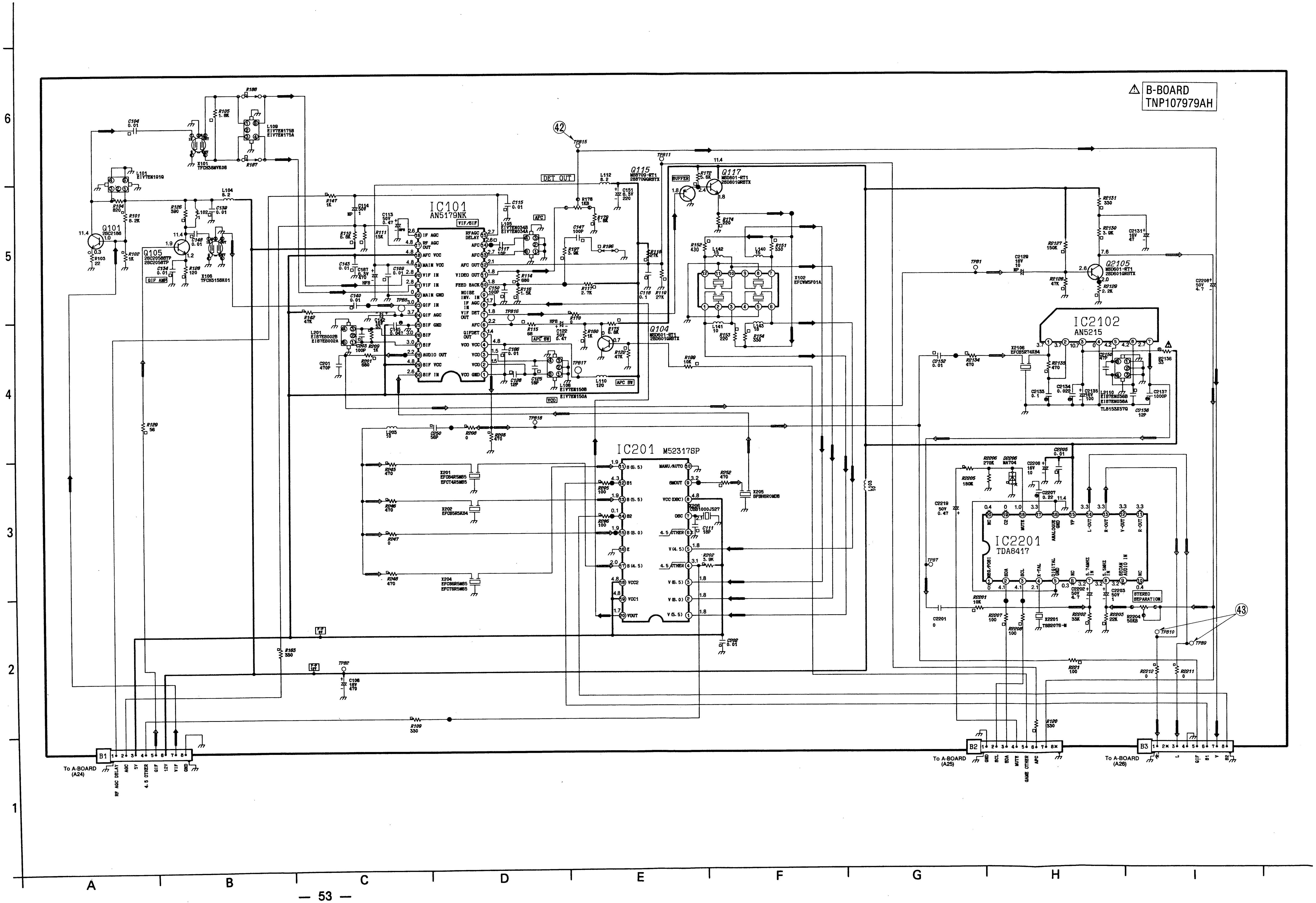

IC2001
TDA8732
IC2002
SAA7282ZP/M3
Q2002
2SC2480
Q2003
2SC2480
Q2004
2SD601A
Q2005
2SD601A
Q2006
2SD601A
Q2010
2SD601A
Q2011
2SD601A
Q2012
2SD601A
Q2013
2SD601A
T2001
TL8158X54Q
T2002
TL8158X53Q1
D2020
MA862
D2021
MA862
D2001
BB405B
D2003
MA151K
D2004
BB809
D2014
MA57
X2006
EFCA5R5MB3
X2010
TSS2140-N
X2009
TSS2061-M
8.192MHz
To A-BOARD
(A21)
F1
GND
SCL
SDA
GND
12V
5V
To A-BOARD
(A22)
F2
R
GND
L
GND
QIF
R
GND
L
TPF42
TPF33
44
CLKLPF
ANALOGUE GND
DPSK IN
VCCA
CF1
CF0
SF0
SF1
CARLPF
CARDSC
CLKOSC
TEST
CSN
CLK
CLKIN
DATA
DIGITAL GND
IMC
VCCD
OMC
PCLK
RESET
SCL
SDA
PORT2
ADSEL
MUTE
ANALOGUE VDD R-CH
ANALOGUE GND R-CH
VRC
VRO
R OUT
R-CH
EXT R
FM IN R-CH
INTR
CDR
DATA
OUT
X IN
DIGITAL GND
DOBM
DIGITAL VDD
TEST
ANALOGUE VDD L-CH
ANALOGUE GND L-CH
L OUT
EXT L
FM IN L-CH
INT L
CDL
VDAC
VREF
F-BOARD
TNP107987AB
6
5
4
3
2
1
A
B
C
D
E
F
G
H
I
J

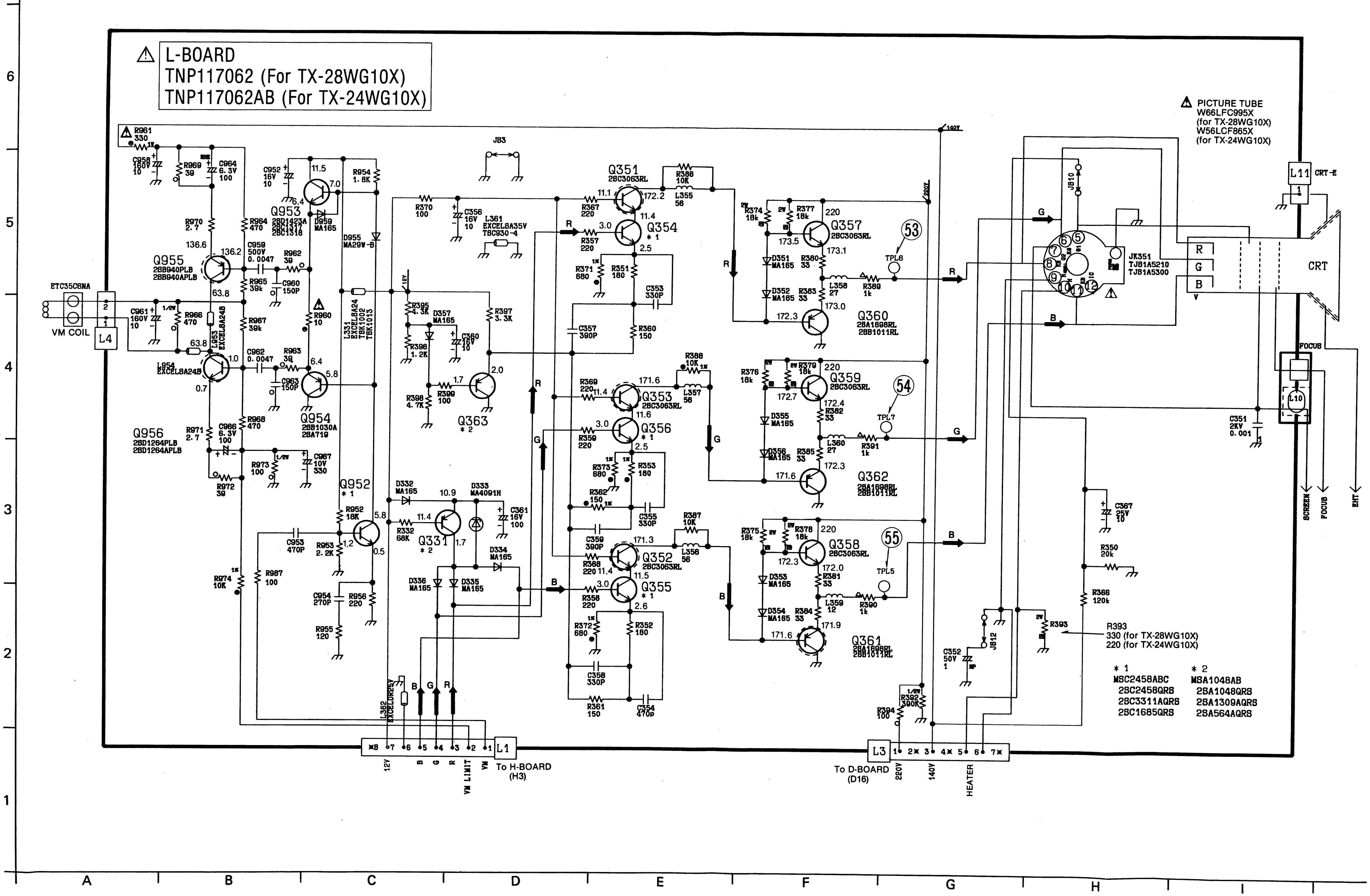

C2042
0.022
LDR25V
003

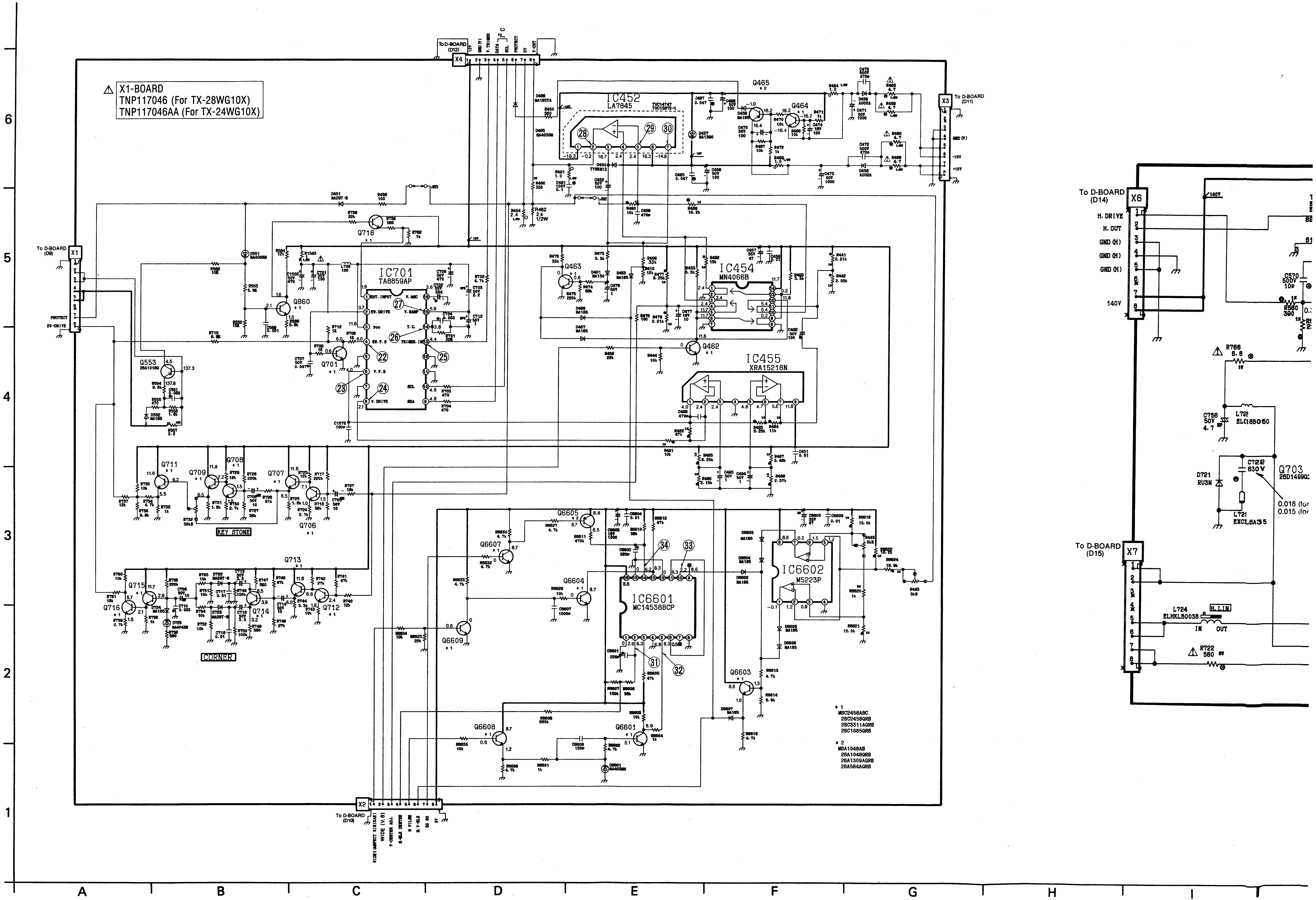


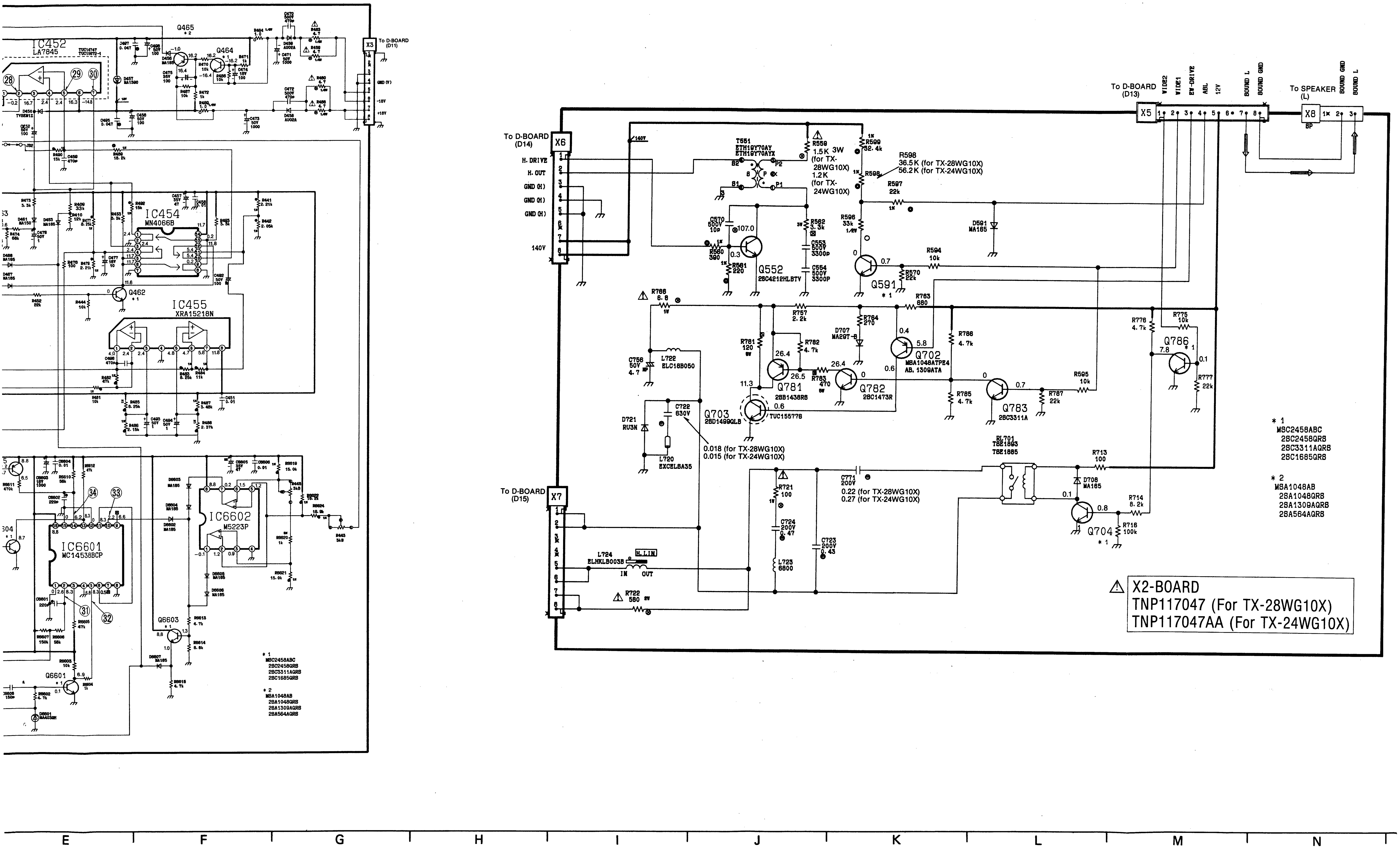
⚠ Z-BOARD
TNP117049 (For TX-28WG10X)
TNP117049AA (For TX-24WG10X)

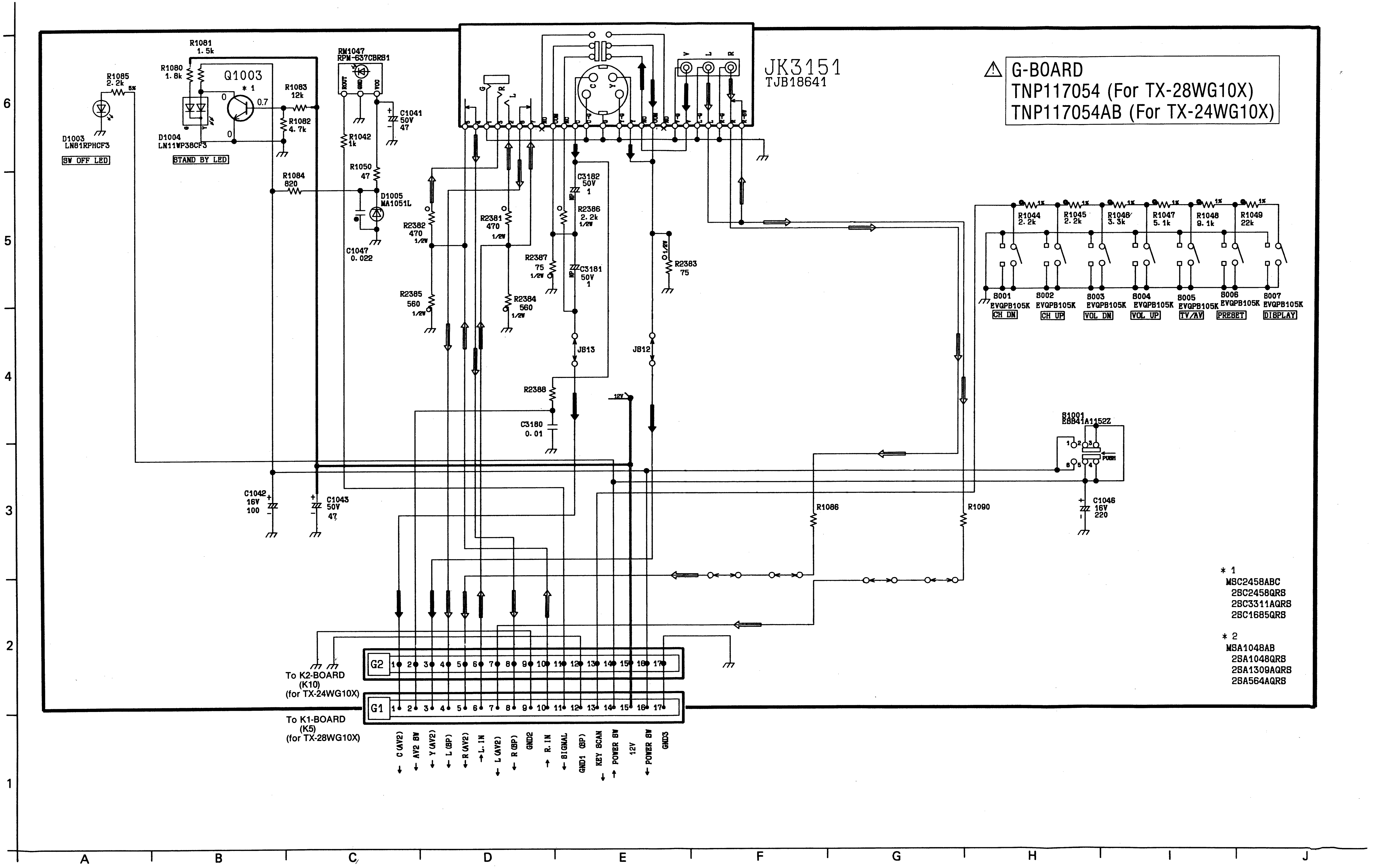
IC2403
XRA15218N
BA15218N
IC2404
XRA15218N
BA15218N
IC2401
CXA1735AS
IC2402
XRA15218N
BA15218N
Q2410
2SD601AQRS
Q2409
2SD601AQRS
Q2408
2SD601AQRS
Q2406
2SD601AQRS
Q2412
2SD601AQRS
Q2411
2SB709AQRS
Q2404
2SB709AQRS
Q2403
2SB709AQRS
Q2405
2SD601AQRS
Q2401
2SD601AQRS
Q2402
2SD601AQRS
Q2407
2SD601AQRS
D2355
MA150 D2351
MA150 D2352
D2353 MA150
C2462
0.022 (for TX-28WG10X)
0.01 (for TX-24WG10X)
C2461
0.015 (for TX-28WG10X)
8200P (for TX-24WG10X)
R-IN
GND
CL-R
CH-R
BAL
TRE
BASS
VOL
CC-R
R-OUT
PB1A
PB2B
D GND
BCL
SDA
L-IN
VCC
CL-L
CH-L
VRB
MVFO
MVFI
LPF
CC-L
L-OUT
AGCDET
PB3B
PB3A
PB1B
PB2A
Z1
To A-BOARD
(Z1)
SDA
SCL
12V
L-IN
R-IN
TP11
TP12
TP13
TP14
TP15
TP16
TP17
TP18
TP19
TP20
Z2
To A-BOARD
(Z2)
L-OUT
GND
R-OUT
SOUND-A1
XBB ON/OFF
J
K
L
M
N
O
P
Q
R
S

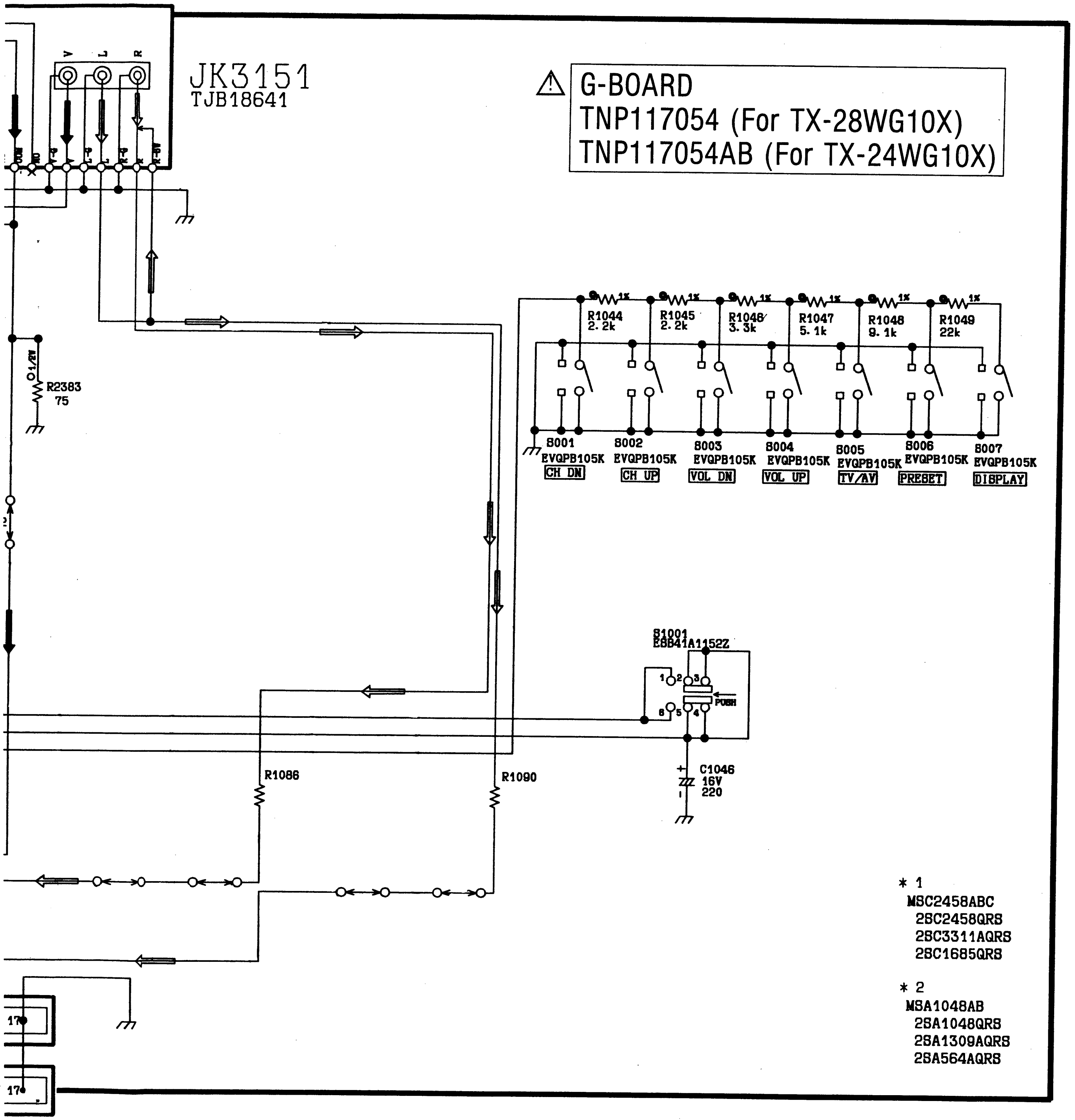

⚠ B-BOARD
TNP107979AH
IC101
AN5179NK
VIF/SIF
IC201
M52317SP
IC2102
AN5215
IC2201
TDA8417
Q101
2SC2188
Q105
2SC2058STP
2SC2058TP
Q115
MSB709-RT1
2SB709QRSTX
Q117
MSD601-RT1
2SD601QRSTX
Q104
MSD601-RT1
2SD601QRSTX
Q2105
MSD601-RT1
2SD601QRSTX
X101
TFCH38MVK08
X106
TFCH3158K01
X102
EFCWW5F01A
L109
EIVTEM175B
EIVTEM175A
L101
EIVTEM191Q
L201
EI87EB002B
EI87EB002A
L105
EIVTEM034B
EIVTEM034A
L106
EIVTEM150B
EIVTEM150A
X201
EFCB4R5MB5
EFCT4R5MB5
X202
EFCB5R5KB4
X204
EFCB6R5MB5
EFCT6R5MB5
X205
EFSH6R0MDB
X2106
EFCB5R74XB4
X2201
TSB2076-M
L2110
EI87EN036B
EI87EN036A
TL8153X57Q
D2206
MA704
DET OUT
BUFFER
QIF AMP
AFC
AFC 9V
VCO
APC 9V
STEREO SEPARATION
TP811
TP815
TP816
TP817
TP818
TP81
TP82
TP86
TP87
TP810
TP89
42
43
B1
To A-BOARD
(A24)
RF AGC DELAY
AGC
5V
4.5 OTHER
QIF
12V
VIF
GND
B2
To A-BOARD
(A25)
GND
SCL
SDA
MUTE
GAME OTHER
APC
B3
To A-BOARD
(A26)
R
L
QIF
S1
V
S2
A
B
C
D
E
F
G
H
I
1
2
3
4
5
6

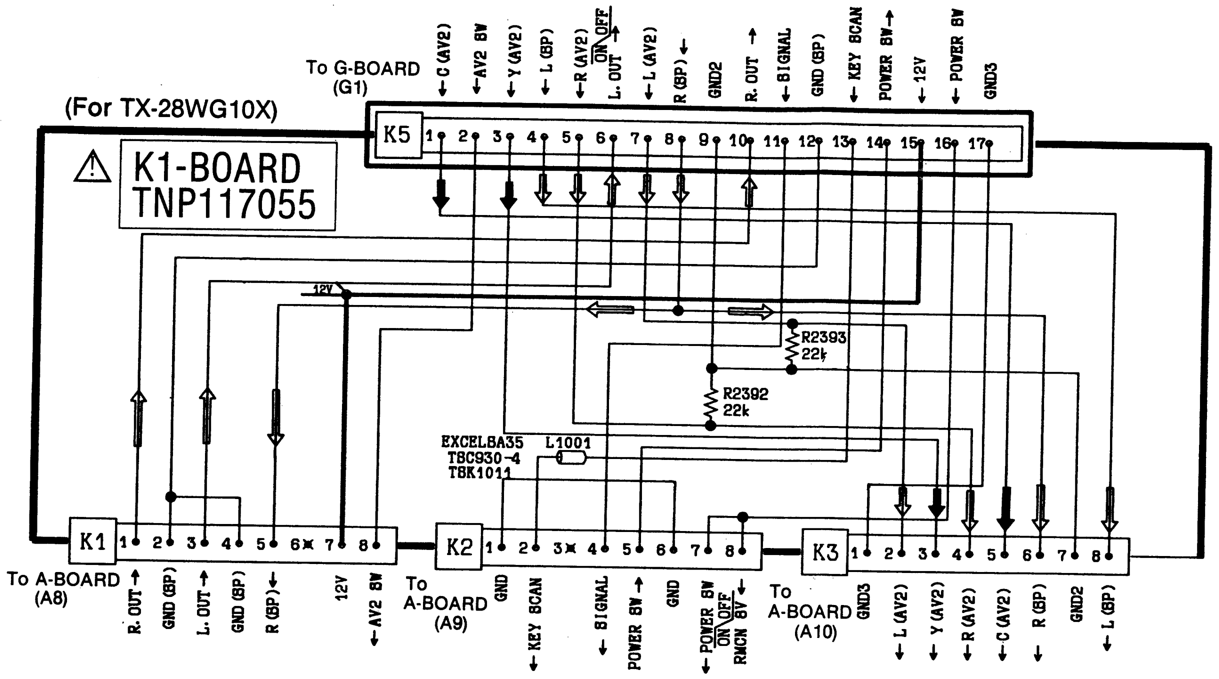

L-BOARD
TNP117062 (For TX-28WG10X)
TNP117062AB (For TX-24WG10X)
PICTURE TUBE
W66LFC995X
(for TX-28WG10X)
W56LCF865X
(for TX-24WG10X)
CRT
CRT-E
L11
FOCUS
L10
SCREEN
FOCUS
EHT
JK351
TJB1A5210
TJB1A5300
ETC35C8NA
VM COIL
L4
L1
To H-BOARD
(H3)
12V
B
G
R
VM LIMIT
VM
L3
To D-BOARD
(D16)
220V
140V
HEATER
Q351
2SC3063RL
Q352
Q353
Q354
Q355
Q356
Q357
Q358
Q359
Q360
2SA1698RL
2SB1011RL
Q361
Q362
Q363
Q331
Q952
Q953
2SD1423A
2SC1317
2SC1318
Q954
2SB1030A
2SA719
Q955
2SB940PLB
2SB940APLB
Q956
2SD1264PLB
2SD1264APLB
L331
EXCELSA24
TBK1002
TBK1013
L361
EXCELSA35V
TBC930-4
L953
EXCELSA24B
L954
EXCELSA24B
L382
EXCELDR25V
D955
MA29W-B
D959
MA165
D332
D333
MA4091H
D334
D335
D336
D357
D351
D352
D353
D354
D355
D356
JB3
JB10
JB12
TPL5
TPL6
TPL7
53
54
55
C351
2KV
0.001
C352
50V
1
C367
25V
10
R350
20k
R366
120k
R393
R393
330 (for TX-28WG10X)
220 (for TX-24WG10X)
* 1
MSC2458ABC
2SC2458QRS
2SC3311AQRS
2SC1685QRS
* 2
MSA1048AB
2SA1048QRS
2SA1309AQRS
2SA564AQRS
A
B
C
D
E
F
G
H
I
1
2
3
4
5
6

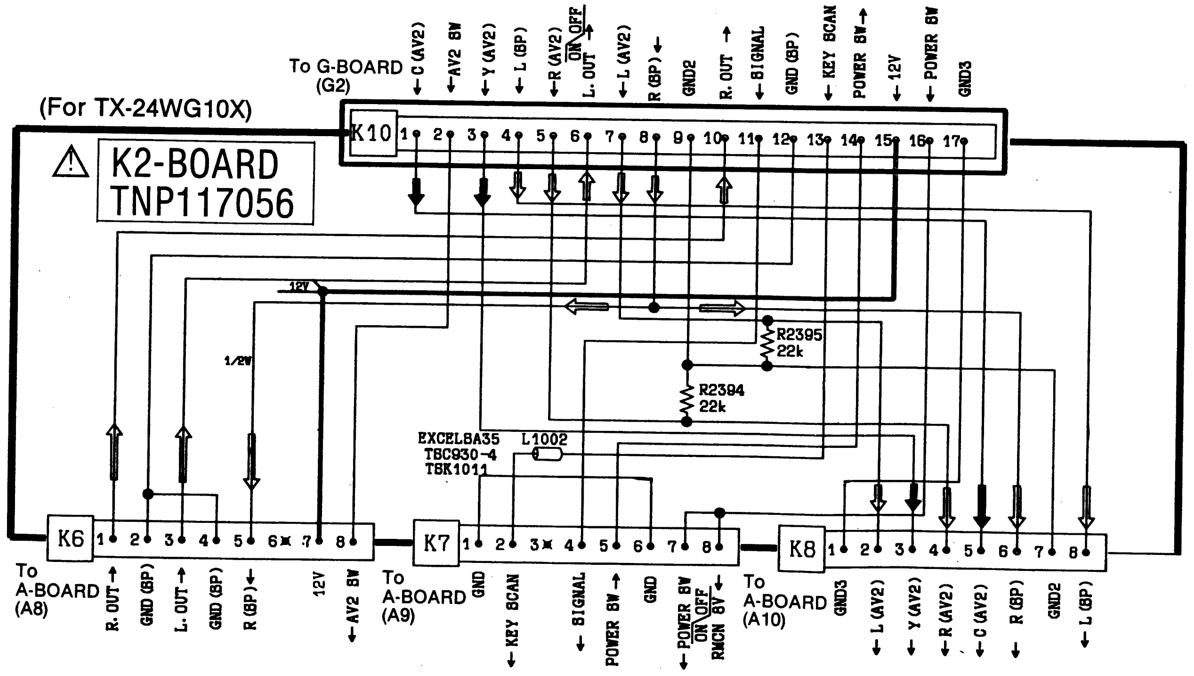

X1-BOARD
TNP117046 (For TX-28WG10X)
TNP117046AA (For TX-24WG10X)
To D-BOARD (D12)
X4
GND (V)
V. TRIGGER
DATA
SCL
PROTECT
DY
V-OUT
To D-BOARD (D11)
X3
GND (V)
-15V
+15V
To D-BOARD (D9)
X1
PROTECT
EW-DRIVE
IC452
LA7845
IC701
TA8859AP
EXT. INPUT
V. AGC
EW. DRIVE
V. RAMP
T.C.
TRIGGER IN
V. F.B
V. DRIVE
SCL
SDA
IC454
MN4066B
IC455
XRA15218N
Q465
Q464
Q463
Q462
Q718
Q860
Q701
Q553
Q711
Q709
Q708
Q707
Q706
KEY STONE
Q713
Q715
Q716
Q714
Q712
CORNER
Q6605
Q6607
Q6604
Q6609
IC6601
MC14538BCP
IC6602
M5223P
Q6603
Q6608
Q6601
* 1
MBC2458ABC
2SC2458QRB
2SC3311AQRB
2SC1685QRB
* 2
MSA1048AB
2SA1048QRB
2SA1309AQRB
2SA564AQRB
X2
To D-BOARD (D10)
WIDE (ASPECT SIGNAL)
WIDE (V.S)
V-CENTER ADJ.
H-BLK CENTER
H PULSE
H. V-BLK
50 60
5V
To D-BOARD (D14)
X6
H. DRIVE
H. OUT
GND (H)
GND (H)
GND (H)
140V
R766
6.8
C756
50V
4.7
L722
ELC18B050
C722
630V
Q703
2SD1499Q
D721
RU3N
0.018 (fo
0.015 (fo
L721
EXCL8A35
To D-BOARD (D15)
X7
L724
ELHKLB005B
H. LIN
IN
OUT
R722
560
C570
500V
10p
R560
390
A
B
C
D
E
F
G
H
I
1
2
3
4
5
6

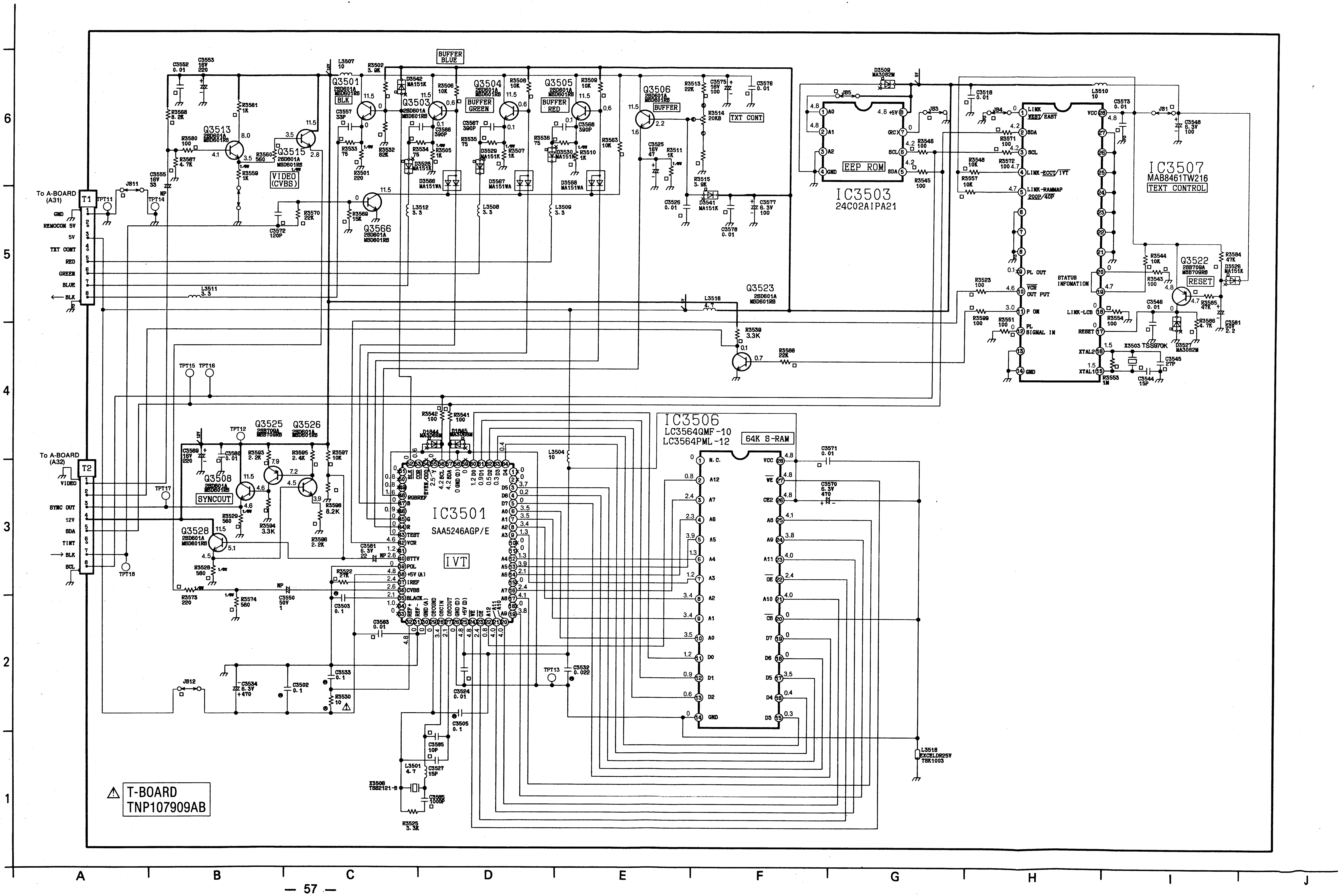

IC452
LA7845
IC454
MN4066B
IC455
XRA15218N
IC6601
MC14538BCP
IC6602
M5223P
Q465
Q464
Q462
Q6601
Q6603
X3
To D-BOARD (D11)
GND (V)
-18V
+18V
* 1
M5C2458ABC
2SC2458QRS
2SC3311AQRS
2SC1685QRS
* 2
MSA1048AB
2SA1048QRS
2SA1309AQRS
2SA564AQRS
To D-BOARD (D14)
X6
H. DRIVE
H. OUT
GND (H)
GND (H)
GND (H)
140V
T551
ETH19Y70AY
ETH19Y70AYX
R559 1.5K 3W (for TX-28WG10X) 1.2K (for TX-24WG10X)
R599 82.4k
R598 36.5K (for TX-28WG10X) 56.2K (for TX-24WG10X)
R597 22k
R596 33k
D591 MA165
R594 10k
R570 22k
Q552
2SC4212HLSTV
Q591
C570 500V 10p
R560 390
R561 220
R562 3.3k
C553 500V 3300P
C554 500V 3300P
R766 6.8
R757 2.2k
R763 680
R764 270
D707 MA29T-B
R786 4.7k
R781 120
R782 4.7k
R783 470
Q781
2SB1438RS
Q782
2SC1473R
Q702
MSA1048ATPE4
AB, 1309ATA
Q783
2SC3311A
R785 4.7k
R787 22k
R595 10k
R776 4.7k
R775 10k
Q786
R777 22k
Q703
2SD1499QLB
TUC155776
C756 50V 4.7
L722 ELC18B050
C722 630V
D721 RU3N
L720 EXCELSA35
0.018 (for TX-28WG10X)
0.015 (for TX-24WG10X)
To D-BOARD (D15)
X7
L724 ELHKLB0038
H.LIN
IN OUT
R722 560
R721 100
C724 200V 0.47
L723 6800
C723 200V 0.43
C771 200V
0.22 (for TX-28WG10X)
0.27 (for TX-24WG10X)
RL701 TSE1893 TSE1885
R713 100
D708 MA165
R714 8.2k
R716 100k
Q704
To D-BOARD (D13)
X5
WIDE2
WIDE1
EW-DRIVE
ABL
12V
SOUND L
SOUND GND
To SPEAKER (L)
X8
8P
X2-BOARD
TNP117047 (For TX-28WG10X)
TNP117047AA (For TX-24WG10X)
E
F
G
H
I
J
K
L
M
N


⚠ G-BOARD
TNP117054 (For TX-28WG10X)
TNP117054AB (For TX-24WG10X)
JK3151
TJB18641
R1085
2.2k
5%
D1003
LN81RPHCF3
SW OFF LED
R1081
1.5k
R1080
1.8k
Q1003
* 1
0
0.7
0
D1004
LN11WP38CF3
STAND BY LED
R1083
12k
R1082
4.7k
R1084
820
RM1047
RPM-637CBRS1
ROUT
GND
VCC
C1041
50V
47
R1042
1k
R1050
47
D1005
MA1051L
C1047
0.022
R2382
470
1/2W
R2385
560
1/2W
R2381
470
1/2W
R2384
560
1/2W
C3182
50V
1
NP
R2386
2.2k
1/2W
R2387
75
1/2W
C3181
50V
1
NP
R2383
75
1/2W
JS13
JS12
R2388
C3180
0.01
12V
V
L
R
R1044
2.2k
R1045
2.2k
R1046
3.3k
R1047
5.1k
R1048
9.1k
R1049
22k
1%
S001
EVQPB105K
CH DN
S002
EVQPB105K
CH UP
S003
EVQPB105K
VOL DN
S004
EVQPB105K
VOL UP
S005
EVQPB105K
TV/AV
S006
EVQPB105K
PRESET
S007
EVQPB105K
DISPLAY
S1001
ESB41A11522
PUSH
C1042
16V
100
C1043
50V
47
R1086
R1090
C1046
16V
220
* 1
MSC2458ABC
2SC2458QRS
2SC3311AQRS
2SC1685QRS
* 2
MSA1048AB
2SA1048QRS
2SA1309AQRS
2SA564AQRS
G2
G1
To K2-BOARD
(K10)
(for TX-24WG10X)
To K1-BOARD
(K5)
(for TX-28WG10X)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17
↓ C (AV2)
↓ AV2 SW
↓ Y (AV2)
↓ L (SP)
↓ R (AV2)
↑ L. IN
↓ L (AV2)
↓ R (SP)
GND2
↑ R. IN
↓ SIGNAL
GND1 (SP)
↓ KEY SCAN
↑ POWER SW
12V
↓ POWER SW
GND3
1
2
3
4
5
6
A
B
C
D
E
F
G
H
I
J


JK3151
TJB18641
V
L
R
⚠ G-BOARD
TNP117054 (For TX-28WG10X)
TNP117054AB (For TX-24WG10X)
R2383
75
R1044 2.2k
R1045 2.2k
R1046 3.3k
R1047 5.1k
R1048 9.1k
R1049 22k
1%
S001 EVQPB105K CH DN
S002 EVQPB105K CH UP
S003 EVQPB105K VOL DN
S004 EVQPB105K VOL UP
S005 EVQPB105K TV/AV
S006 EVQPB105K PRESET
S007 EVQPB105K DISPLAY
S1001 ESB41A1152Z
PUSH
C1046 16V 220
R1086
R1090
*1
MSC2458ABC
2SC2458QRS
2SC3311AQRS
2SC1685QRS
*2
MSA1048AB
2SA1048QRS
2SA1309AQRS
2SA564AQRS
17
GND3


To G-BOARD (G1)
(For TX-28WG10X)
⚠ K1-BOARD
TNP117055
K5
C (AV2)
AV2 8V
Y (AV2)
L (BP)
R (AV2)
L. OUT ON/OFF
L (AV2)
R (BP)
GND2
R. OUT
SIGNAL
GND (BP)
KEY SCAN
POWER 8V
12V
POWER 8V
GND3
12V
R2393 22k
R2392 22k
EXCEL8A35 TBC930-4 TBK1011
L1001
K1
K2
K3
To A-BOARD (A8)
R. OUT
GND (BP)
L. OUT
GND (BP)
R (BP)
12V
AV2 8V
To A-BOARD (A9)
GND
KEY SCAN
SIGNAL
POWER 8V
GND
POWER 8V ON/OFF
RMCN 8V
To A-BOARD (A10)
GND3
L (AV2)
Y (AV2)
R (AV2)
C (AV2)
R (BP)
GND2
L (BP)


To G-BOARD (G2)
(For TX-24WG10X)
⚠ K2-BOARD
TNP117056
K10
C (AV2)
AV2 8V
Y (AV2)
L (BP)
R (AV2)
L. OUT ON/OFF
L (AV2)
R (BP)
GND2
R. OUT
SIGNAL
GND (BP)
KEY SCAN
POWER 8V
12V
POWER 8V
GND3
12V
1/2W
R2395 22k
R2394 22k
EXCEL8A35 TBC930-4 TBK1011
L1002
K6
K7
K8
To A-BOARD (A8)
R. OUT
GND (BP)
L. OUT
GND (BP)
R (BP)
12V
AV2 8V
To A-BOARD (A9)
GND
KEY SCAN
SIGNAL
POWER 8V
GND
POWER 8V ON/OFF
RMCN 8V
To A-BOARD (A10)
GND3
L (AV2)
Y (AV2)
R (AV2)
C (AV2)
R (BP)
GND2
L (BP)


T-BOARD
TNP107909AB
IC3501
SAA5246AGP/E
IVT
IC3503
24C02AIPA21
EEP ROM
IC3506
LC3564QMF-10
LC3564PML-12
64K S-RAM
IC3507
MAB8461TW216
TEXT CONTROL
Q3501
BLK
Q3503
BUFFER BLUE
Q3504
BUFFER GREEN
Q3505
BUFFER RED
Q3506
BUFFER
TXT CONT
Q3513
Q3515
VIDEO (CVBS)
Q3566
Q3522
RESET
Q3523
Q3525
Q3526
Q3508
SYNCOUT
Q3528
To A-BOARD (A31)
T1
GND
REMOCON 5V
5V
TXT CONT
RED
GREEN
BLUE
BLK
To A-BOARD (A32)
T2
VIDEO
SYNC OUT
12V
SDA
TINT
BLK
SCL
TPT11
TPT12
TPT13
TPT14
TPT15
TPT16
TPT17
TPT18
JB11
JB12
L3518 EXCELDR25V TBK1003
X3506 TSS2121-B
X3503 TSS970K
STATUS INFOMATION
LINK TEST/EAST
SDA
SCL
LINK-ECCT/IVT
LINK-RAMMAP 200P/40P
PL OUT
VCR OUT PUT
P ON
PL SIGNAL IN
GND
LINK-LCB
RESET
XTAL2
XTAL1
VCC
N.C.
A12
A7
A6
A5
A4
A3
A2
A1
A0
D0
D1
D2
D3
D4
D5
D6
D7
CE
A10
OE
A11
A9
A8
CE2
WE
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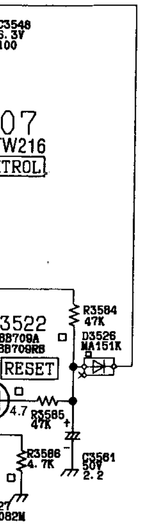
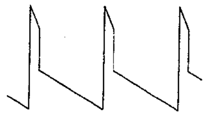
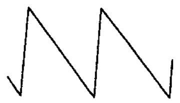
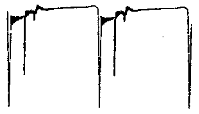
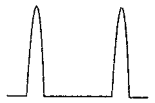
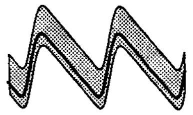
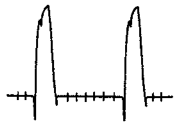
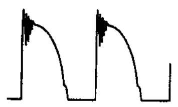
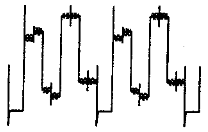
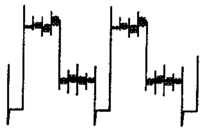
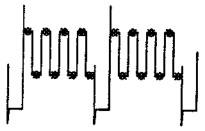
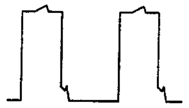
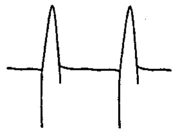
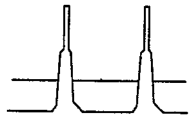
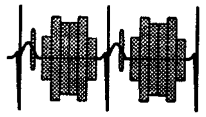
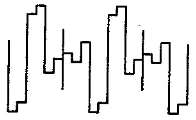
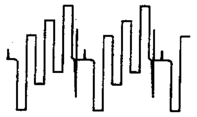
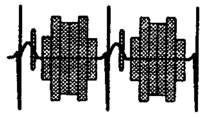
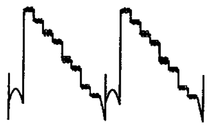
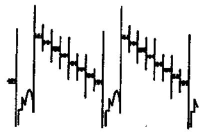
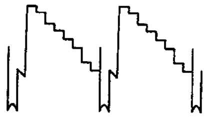
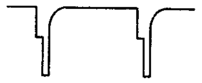
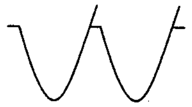
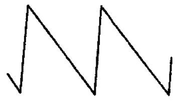
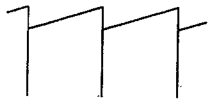
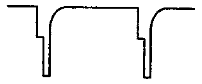
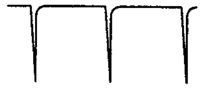
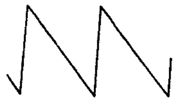
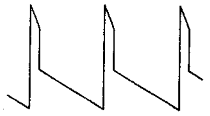
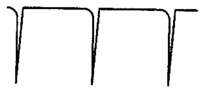
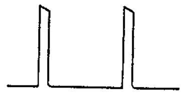
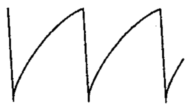
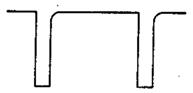
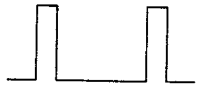
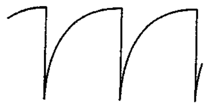
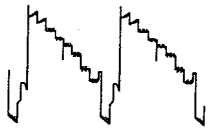
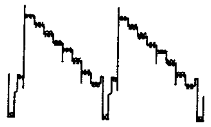
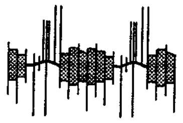
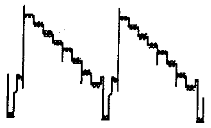
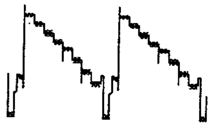
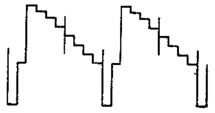
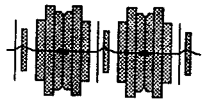
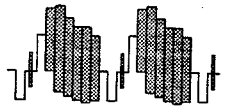
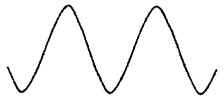
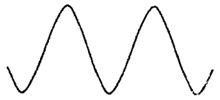
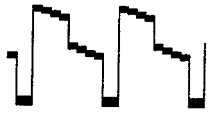
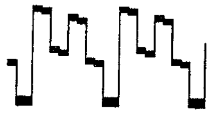
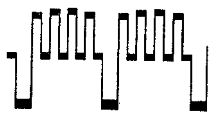
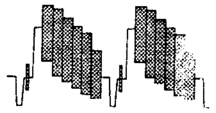
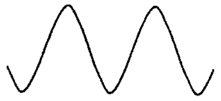
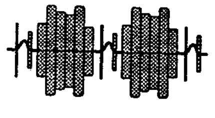
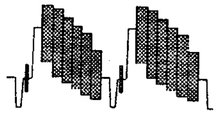
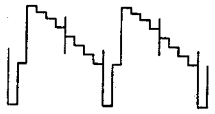
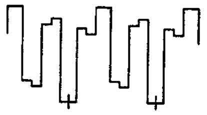
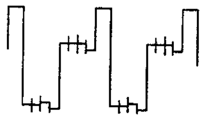
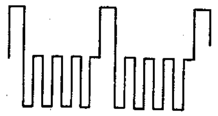
I
J



WAVEFORM PATTERN TABLE

① TPD28, TPD27  62Vp–p(5msec)	② TPD31, TPD32  1.7Vp–p(5msec)	③ Q552–B  20Vp–p(20µsec)	④ TPD25, TPD26  1300Vp–p(20µsec)
⑤ TPD15  3.2Vp–p(5msec)	⑥ TPD35  0.9Vp–p(20µsec)	⑦ IC801–1  675Vp–p(5µsec)	⑧ TPA40  4.8Vp–p(20µsec)
⑨ TPA41  4.8Vp–p(20µsec)	⑩ TPA42  4.8Vp–p(20µsec)	⑪ IC601–6  4.8Vp–p(20µsec)	⑫ IC601–20  0.8Vp–p(20µsec)
⑬ IC601–10  8.8Vp–p(20µsec)	⑭ IC601–35  0.55Vp–p(20µsec)	⑮ TPA39  1.1Vp–p(20µsec)	⑯ TPA38  1.0Vp–p(20µsec)
⑰ IC601–49, 51  0.7Vp–p(20µsec)	⑱ IC601–58  0.6Vp–p(20µsec)	⑲ IC601–60  1.0Vp–p(20µsec)	⑳ IC601–63  1.8Vp–p(20µsec)
㉑ IC601–64  5.3Vp–p(5msec)	㉒ IC701–4  2.0Vp–p(5msec)	㉓ IC701–6  1.5Vp–p(5msec)	㉔ IC701–8  2.2Vp–p(5msec)
㉕ IC701–13  4.7Vp–p(5msec)	㉖ IC701–14  3.0Vp–p(5msec)	㉗ IC701–15  3.0Vp–p(5msec)	㉘ IC452–2  65Vp–p(5msec)

WAVEFORM PATTERN TABLE

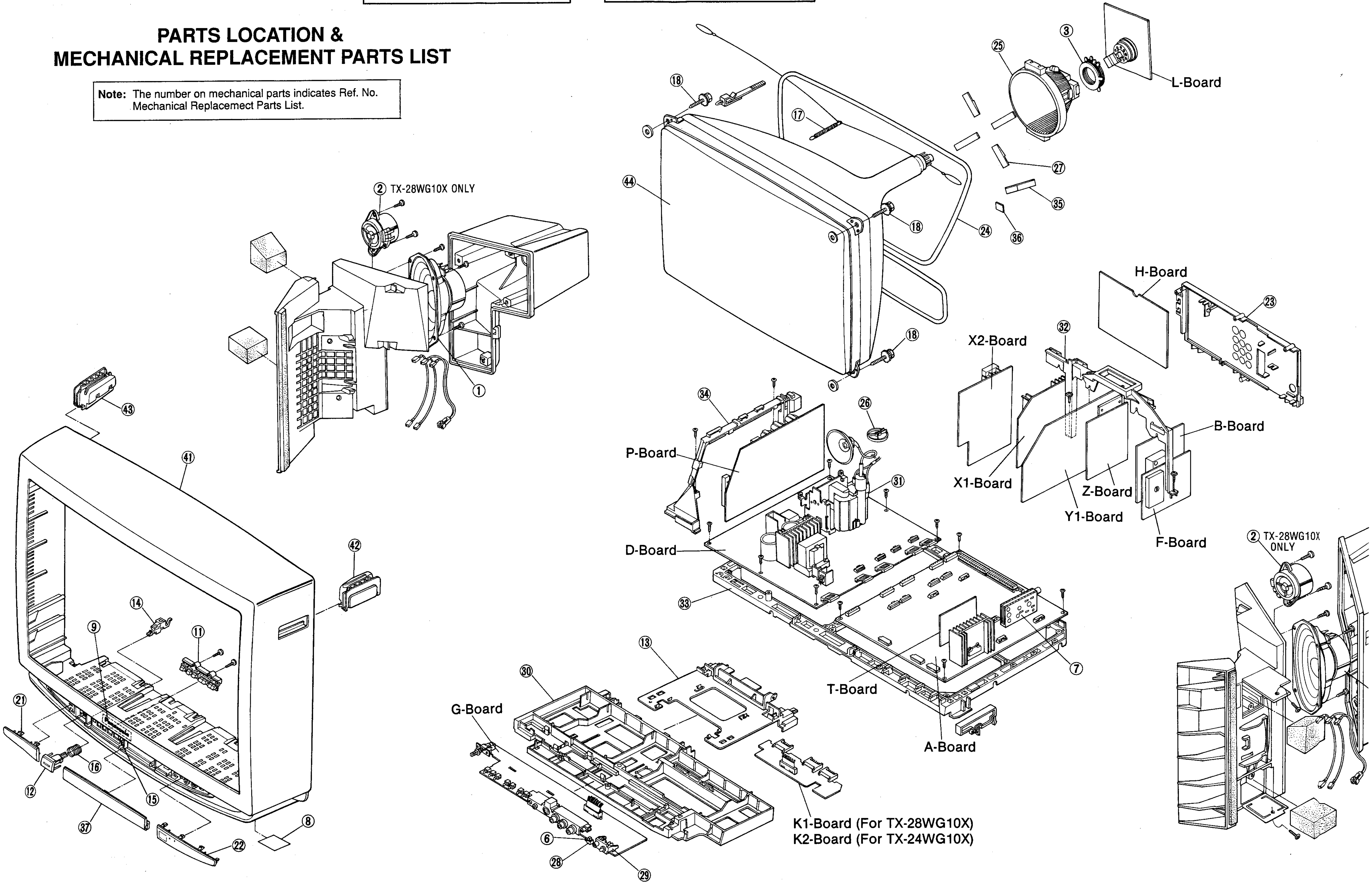
㉙ IC452–5  0.7Vp–p(5msec)	㉚ IC452–7  37.8Vp–p(5msec)	㉛ IC6601–2  5.8Vp–p(20µsec)	㉜ IC6601–5  8.9Vp–p(20µsec)
㉝ IC6601–10  8.6Vp–p(20µsec)	㉞ IC6601–14  8.7Vp–p(20µsec)	㉟ IC3301–14  0.8Vp–p(20µsec)	㊱ IC3301–18  0.9Vp–p(20µsec)
㊲ IC3301–26  1.3Vp–p(20µsec)	㊳ IC3301–31  1.8Vp–p(20µsec)	㊴ IC3603–2, 11  1.8Vp–p(20µsec)	㊵ IC5502–11  1.8Vp–p(20µsec)
㊶ IC5503–11  0.9Vp–p(20µsec)	㊷ TPD15  1.9Vp–p(20µsec)	㊸ TPB9, B10  1.1Vp–p(0.5msec)	㊹ TPF33, 42  1.1Vp–p(0.5msec)
㊺ TPH3  4.8Vp–p(20µsec)	㊻ TPH4  4.4Vp–p(20µsec)	㊼ TPH5  4.4Vp–p(20µsec)	㊽ Q3006–E  2.3Vp–p(20µsec)
㊾ Q3015–C Q6016–C  2.3Vp–p(0.5msec)	㊿ IC3001–40, 56  0.7Vp–p(20µsec)	(51) IC3002–42  2.3Vp–p(20µsec)	(52) IC3002–44, 53  2.0Vp–p(20µsec)
(53) TPL6  140Vp–p(20µsec)	(54) TPL7  128Vp–p(20µsec)	(55) TPL5  128Vp–p(20µsec)	

J K L M N O P Q R S

TX–24 / 28WG10X

PARTS LOCATION & MECHANICAL REPLACEMENT PARTS LIST

Note: The number on mechanical parts indicates Ref. No. Mechanical Replacemect Parts List.


② TX-28WG10X ONLY
①
43
41
42
⑭
⑨
⑪
㉑
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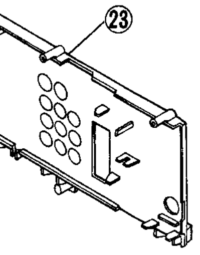
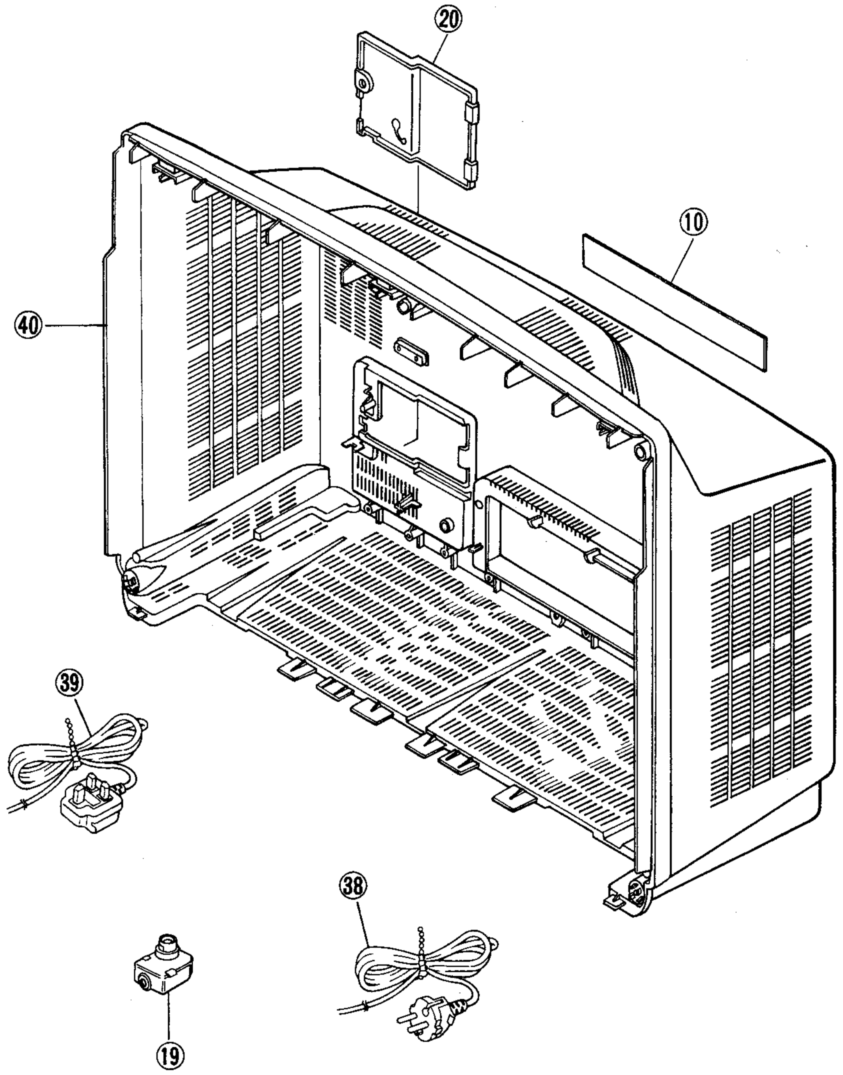
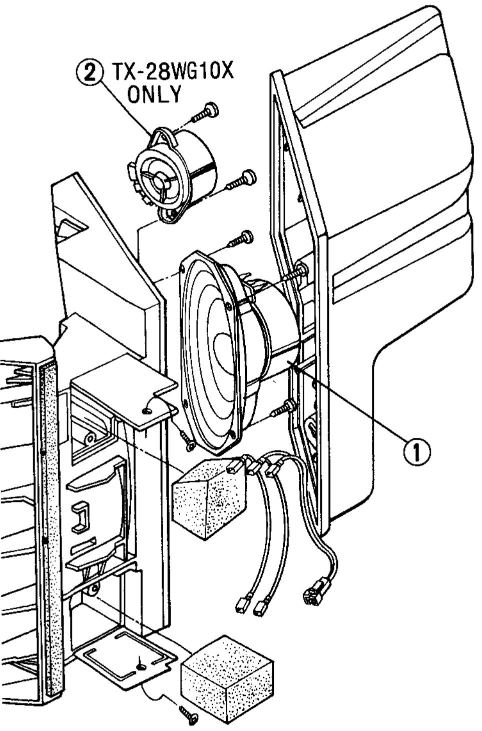
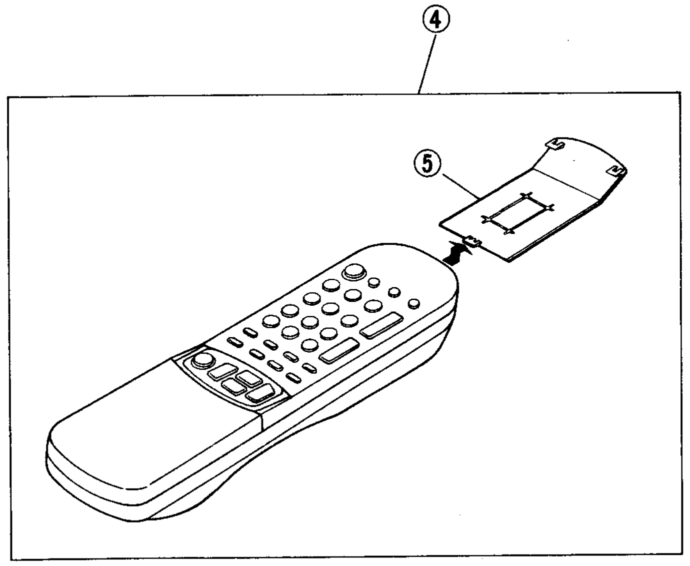
⑯
⑮
37
㉒
⑧
⑱
⑰
44
⑱
⑱
㉕
③
L-Board
㉗
35
㉔
36
H-Board
㉓
32
X2-Board
34
26
P-Board
31
X1-Board
Z-Board
Y1-Board
B-Board
F-Board
D-Board
33
⑦
⑬
㉚
G-Board
T-Board
A-Board
K1-Board (For TX-28WG10X)
K2-Board (For TX-24WG10X)
⑥
㉘
㉙
② TX-28WG10X ONLY



B-Board







MECHANICAL PARTS LIST (For TX-28WG10X)

Ref.No.	Part No.	Description
1	EKX12E114A	SPEAKER (WOOFER)
2	EKX13H11A	SPEAKER (TWEETER)
3	ETC35C65NA	CONVERGENCE YOKE
4	EUR51905	REMOTE CONTROL
5	EU51EC780	BATTERY COVER
6	RPM-637CBRS1	REMOTE CONTROL RECEIVER
7	ENV598C4G3	TUNER ⚠
8	TBL63413	SET LEG
9	TBM153021	PANASONIC BADGE
10	TBM170767	MODEL NAME PLATE (ONLY FOR MALAYSIA MODEL) ⚠
10	TBM170780	MODEL NAME PLATE (EXCEPT MALAYSIA MODEL) ⚠
11	TBX2685201	HINGE BUTTON
12	TBX2686001	POWER BUTTON
13	TEJ15226	ARM
14	TEK6343	DAMPER
15	TEK6940	DOOR SWITCH
	TES1605	COIL SPRING
16	TES2249	SPRING
17	TES2298	SPRING
18	THT1009R	SCREW
19	TJB1726400	75OHM ADAPTOR
20	TKK169788	AC CORD COVER
21	TKP15A3306	FRONT PANEL (L)
22	TKP15A3403	FRONT PANEL (R)
23	TKP17A2901	REAR TERMINAL GRIL
24	TLK269085N	DEGAUSSING COIL ⚠
25	TLY15927F	DEFLECTION YOKE ⚠
26	TMM15404-1	SPACER RING
	TMM16497	CLAMPER
27	TMM27523	DY WEDGE
28	TMW15946	SPACER
29	TMW17734	LED HOLDER
30	TMW6169	FRONT BRACKET
	TMX15112	CHASSIS FRAME
31	TMX15115-1	BRACKET (FBT)
32	TMX17142	BRACKET
33	TMX17143	CHASSIS FLAME
34	TMX17210-2	BRACKET (P PRINT)
	TPC1951601	CARTON
	TPD191630	CUSHION (UPPER)
	TPD192614	CUSHION (BOTTOM)
	TPE114107	SET COVER
	TPE114124	PROTECT COVER
	TQB621994	FAN BAG
35	TSM10032-2	MAGNET
36	TSN63115-4	MAGNET
37	TTP170002	BOTTOM DOOR
38	TSX1481	AC POWER CORD (EXCEPT MALAYSIA MODEL) ⚠
39	TSX1486	AC POWER CORD (ONLY FOR MALAYSIA MODEL) ⚠
40	TTU120050	REAR COVER
41	TTY170053	CABINET
42	TXFKK17Y10	HANDLE (R)
43	TXFKK18Y10	HANDLE (L)
44	W66LFC995X	PICTURE TUBE ⚠
	XTB4+15A	SCREW
	XZBT6506	POLY BAG

MECHANICAL PARTS LIST (For TX-24WG10X)

Ref.No.	Part No.	Description
1	EAS12D140C	SPEAKER
3	ETC-35C6NA	CONVERGENCE YOKE
4	EUR51905	REMOTE CONTROL
5	EU51EC780	BATTERY COVER
6	RPM-637CBRS1	REMOTE CONTROL RECEIVER
7	ENV598C4G3	TUNER ⚠
8	TBL63413	SET LEG
9	TBM153021	PANASONIC BADGE
10	TBM170768	MODEL NAME PLATE (EXCEPT MALAYSIA MODEL) ⚠
10	TBM170781	MODEL NAME PLATE (ONLY FOR MALAYSIA MODEL) ⚠
11	TBX2685201	HINGE BUTTON
12	TBX2686001	POWER BUTTON
13	TEJ15225	ARM
14	TEK6343	DAMPER
15	TEK6940	DOOR SWITCH
16	TES2249	SPRING
17	TES2298	SPRING
18	THT1065R	SCREW
19	TJB1726400	75OHM ADAPTOR
20	TKK169788	AC CORD COVER
21	TKP15A3312	FRONT PANEL (L)
22	TKP15A3403	FRONT PANEL (R)
23	TKP17A2901	REAR TERMINAL GRIL
24	TLK269086N	DEGAUSSING COIL ⚠
25	TLY15926	DEFLECTION YOKE ⚠
26	TMM15404-1	SPACER RING
	TMM16497	CLAMPER
27	TMM27523	DY WEDGE
28	TMW15946	SPACER
29	TMW17734	LED HOLDER
30	TMW6167	BRACKET
31	TMX15115-1	BRACKET (FBT)
32	TMX17142	BRACKET
33	TMX17143	CHASSIS FLAME
34	TMX17210-2	BRACKET (P PRINT)
	TPC1951701	CARTON
	TPD191631	CUSHION (UPPER)
	TPD192615	CUSHION (BOTTOM)
	TPE114106	PORY BAG
	TPE114163	PROTECT COVER
	TQB621994	FAN BAG
35	TSM10032-2	MAGNET
36	TSN63115-4	MAGNET
37	TTP170002	BOTTOM DOOR
38	TSX1481	AC POWER CORD (EXCEPT MALAYSIA MODEL) ⚠
39	TSX1486	AC POWER CORD (ONLY FOR MALAYSIA MODEL) ⚠
40	TTU120051	REAR COVER
41	TTY170054	CABINET
42	TXFKK17Y10	HANDLE (R)
43	TXFKK18Y10	HANDLE (L)
44	W56LCF865X	PICTURE TUBE ⚠
	XTB4+12B	SCREW
	XTB4+15A	SCREW
	XZBT6506	POLY BAG

Replacement Parts List

Important Safety Notice

Components identified by ⚠ mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified parts.

RTL (Retention Time Limited)

Note : The marking (RTL) indicates that the Retention Time is Limited for this item. After the discontinuation of this assembly in production, the item will continue to be available for a specific period of time. The retention period of availability is dependant on the type of assembly, and in accordance with the laws governing part and product retention.
After the end of this period, the assembly will no longer be available.

Abbreviation of part name and description

1. Resistor

Example :

ERD25TJ104 C 100KOHM, J, 1/4W

Type: C Allowance: J

Type		Allowance	
C :	Carbon	F :	± 1%
F :	Fuse	G :	± 2%
M :	Metal Oxide	J :	± 5%
	Metal Film	K :	± 10%
S :	Solid	M :	± 20%
W :	Wire Wound		

2. Capacitor

Example :

ECKF1H103ZF C 0.01UF, Z, 50V

Type: C Allowance: Z

Type		Allowance	
C :	Ceramic	C :	± 0.25pF
E :	Electrolytic	D :	± 0.5pF
P :	Polyester	F :	± 1pF
	Polypropylene	G :	± 3%
T :	Tantalum	J :	± 5%
		K :	± 10%
		L :	± 15%
		M :	± 20%
		P :	+ 100%, −0%
		Z :	+ 80%, − 20%

TX-24 / 28WG10X

Ref.No.	Part No.	Description
	INTEGRATED CICUITS	
IC1	MN15814EKW	MOS IC (4BIT MICR)
IC101	AN5179NK	LINEAR IC
IC201	M52317SP	LINEAR IC
IC452	LA7845	LINEAR IC
IC454	MN4066B	MOS LOGIC IC
IC455	M5218L	LINEAR IC
IC601	TA8880BN	LINEAR IC
IC602	TA8889P	LINEAR IC
IC603	TA8772AN	LINEAR IC
IC701	TA8859AP	LINEAR IC
IC801	STRM6529	LINEAR IC
IC802	SE139N	LINEAR IC
IC803	PQ12RF1A	LINEAR IC
IC805	AN7809	LINEAR IC
IC806	AN7805	LINEAR IC
IC902	AN5421	LINEAR IC
IC1211	24LC08BIPA22	MOS IC (EEP ROM)
IC1212	MN1280R	MOS IC
IC1213	MN1874033T2T	MOS IC (8BIT MICR)
IC1214	AN78L05	LINEAR IC
IC2001	TDA8732	LINEAR IC
IC2002	SAA7282ZP/M3	IC (LOGIC)
IC2102	AN5215	LINEAR IC
IC2201	TDA8417	LINEAR IC
IC2301	TA8200AH	LINEAR IC
IC2401	CXA1735AS	LINEAR IC
IC2402	M5218L	LINEAR IC
IC2403	M5218L	LINEAR IC
IC2404	M5218L	LINEAR IC
IC3001	SN103848PG	IC
IC3301	AN5342FBP	LINEAR IC
IC3501	SAA5246AGP/E	MOS IC (LOGIC)
IC3503	24C02AIPA21H	MOS IC (EEPROM 2K)
IC3506	LC3564PML-12	MOS IC (SRAM 64KB
IC3507	MAB8461TW216	MOS IC (8BIT MCU)
IC3601	AN78M09	LINEAR IC
IC3602	M5223FP	LINEAR IC
IC3603	AN5348SB	LINEAR IC
IC3604	M5223FP	LINEAR IC
IC5501	MN8236	MOS IC
IC5502	LA7222-TV	LINEAR IC
IC5503	LA7222-TV	LINEAR IC
IC5504	SN74HC138NS	C-MOS IC
IC5505	MC14066BFEL	MOS IC
IC6601	MC14538BCP	MOS IC
IC6602	M5223P	LINEAR IC
	TRANSISTORS	
Q1	MSD1328RT1	TRANSISTOR
Q101	2SC2188	TRANSISTOR
Q104	2SD601-R	TRANSISTOR
Q105	2SC2058S	TRANSISTOR
Q115	2SB709-R	TRANSISTOR
Q117	2SD601-R	TRANSISTOR
Q331	2SA564A-R	TRANSISTOR
Q351	2SC3063	TRANSISTOR
Q352	2SC3063	TRANSISTOR
Q353	2SC3063	TRANSISTOR
Q354	2SC1685-Q	TRANSISTOR
Q355	2SC1685-Q	TRANSISTOR
Q356	2SC1685-Q	TRANSISTOR
Q357	2SC3063	TRANSISTOR
Q358	2SC3063	TRANSISTOR
Q359	2SC3063	TRANSISTOR
Q360	2SA1698	TRANSISTOR
Q361	2SA1698	TRANSISTOR
Q362	2SA1698	TRANSISTOR
Q363	2SA564A-R	TRANSISTOR
Q401	UN421E	TRANSISTOR
Q402	UN4213	TRANSISTOR
Q462	2SC1685-Q	TRANSISTOR
Q463	2SC1685-Q	TRANSISTOR
Q464	2SC1685-Q	TRANSISTOR
Q465	2SA564A-R	TRANSISTOR
Q501	2SC1685-Q	TRANSISTOR
Q552	2SC4212H	TRANSISTOR
Q552	2SD2454	TRANSISTOR
Q553	2SA1018	TRANSISTOR
Q591	2SC1685-Q	TRANSISTOR
Q607	2SC1685-Q	TRANSISTOR
Q610	2SC1685-Q	TRANSISTOR
Q612	2SA564A-R	TRANSISTOR
Q618	2SC1685-Q	TRANSISTOR
Q621	2SC1685-Q	TRANSISTOR
Q622	2SA564A-R	TRANSISTOR
Q623	2SC1685-Q	TRANSISTOR
Q624	2SC1685-Q	TRANSISTOR
Q625	2SA564A-R	TRANSISTOR
Q626	2SC1685-Q	TRANSISTOR
Q701	2SC1685-Q	TRANSISTOR
Q702	2SA564A-R	TRANSISTOR
Q703	2SD1499	TRANSISTOR
Q704	2SC1685-Q	TRANSISTOR
Q706	2SC1685-Q	TRANSISTOR
Q707	2SC1685-Q	TRANSISTOR
Q708	2SC1685-Q	TRANSISTOR
Q709	2SC1685-Q	TRANSISTOR
Q711	2SC1685-Q	TRANSISTOR
Q712	2SC1685-Q	TRANSISTOR
Q713	2SC1685-Q	TRANSISTOR
Q714	2SC1685-Q	TRANSISTOR
Q715	2SC1685-Q	TRANSISTOR
Q716	2SC1685-Q	TRANSISTOR
Q718	2SC1685-Q	TRANSISTOR
Q781	2SB1438	TRANSISTOR
Q782	2SC1473-RNC	TRANSISTOR
Q783	2SC1685-Q	TRANSISTOR
Q786	2SC1685-Q	TRANSISTOR
Q801	TVSAC05DGM	THYRISTOR
Q803	2SC1685-Q	TRANSISTOR
Q850	2SA1535	TRANSISTOR
Q851	2SC1473-RNC	TRANSISTOR

Ref.No.	Part No.	Description
Q852	2SD1010S	TRANSISTOR
Q853	2SC5121	TRANSISTOR
Q854	2SC1685-Q	TRANSISTOR
Q855	2SC1473-RNC	TRANSISTOR
Q856	2SC1685-Q	TRANSISTOR
Q857	2SA564A-R	TRANSISTOR
Q860	2SC1685-Q	TRANSISTOR
Q908	UN4212	TRANSISTOR
Q952	2SC1685-Q	TRANSISTOR
Q953	2SD1423A	TRANSISTOR
Q954	2SB1030A	TRANSISTOR
Q955	2SB940	TRANSISTOR
Q956	2SD1264	TRANSISTOR
Q1003	2SC1685-Q	TRANSISTOR
Q1201	2SA564A-R	TRANSISTOR
Q1203	2SA564A-R	TRANSISTOR
Q1204	2SC1685-Q	TRANSISTOR
Q1206	2SC1685-Q	TRANSISTOR
Q1207	2SC1685-Q	TRANSISTOR
Q1213	UN4214	TRANSISTOR
Q1215	2SC1685-Q	TRANSISTOR
Q2002	2SC2480	TRANSISTOR
Q2003	2SC2480	TRANSISTOR
Q2004	2SD601A-R	TRANSISTOR
Q2005	2SD601A-R	TRANSISTOR
Q2006	2SD601A-R	TRANSISTOR
Q2010	2SD601A-R	TRANSISTOR
Q2011	2SD601A-R	TRANSISTOR
Q2012	2SD601A-R	TRANSISTOR
Q2013	2SD601A-R	TRANSISTOR
Q2105	2SD601-R	TRANSISTOR
Q2333	2SC1685-Q	TRANSISTOR
Q2334	2SC1685-Q	TRANSISTOR
Q2374	2SC1685-Q	TRANSISTOR
Q2401	2SD601A-Q	TRANSISTOR
Q2402	2SD601A-Q	TRANSISTOR
Q2403	2SB709A-R	TRANSISTOR
Q2404	2SB709A-R	TRANSISTOR
Q2405	2SD601A-Q	TRANSISTOR
Q2406	2SD601A-Q	TRANSISTOR
Q2407	2SD601A-Q	TRANSISTOR
Q2408	2SD601A-Q	TRANSISTOR
Q2409	2SD601A-Q	TRANSISTOR
Q2410	2SD601A-Q	TRANSISTOR
Q2411	2SB709A-R	TRANSISTOR
Q2412	2SD601A-Q	TRANSISTOR
Q2429	2SA564A-R	TRANSISTOR
Q3002	2SD601A-Q	TRANSISTOR
Q3003	2SD601A-Q	TRANSISTOR
Q3004	2SD601A-Q	TRANSISTOR
Q3005	2SD601A-Q	TRANSISTOR
Q3006	2SB709A-R	TRANSISTOR
Q3008	2SD601A-Q	TRANSISTOR
Q3013	2SD601A-Q	TRANSISTOR
Q3014	UN2214	TRANSISTOR
Q3015	2SD601A-Q	TRANSISTOR

Ref.No.	Part No.	Description
Q3016	2SD601A-Q	TRANSISTOR
Q3019	2SD601A-Q	TRANSISTOR
Q3055	2SB709A-R	TRANSISTOR
Q3057	2SD601A-Q	TRANSISTOR
Q3061	2SD601A-Q	TRANSISTOR
Q3150	2SB709A-R	TRANSISTOR
Q3151	2SB709A-R	TRANSISTOR
Q3184	2SD601A-Q	TRANSISTOR
Q3367	2SD601A-Q	TRANSISTOR
Q3391	2SB709A-R	TRANSISTOR
Q3501	2SD601A-R	TRANSISTOR
Q3503	2SD601A-R	TRANSISTOR
Q3504	2SD601A-R	TRANSISTOR
Q3505	2SD601A-R	TRANSISTOR
Q3506	2SD601A-R	TRANSISTOR
Q3508	2SD601A-R	TRANSISTOR
Q3513	2SD601A-R	TRANSISTOR
Q3515	2SD601A-R	TRANSISTOR
Q3522	2SB709A	TRANSISTOR
Q3523	2SD601A-R	TRANSISTOR
Q3525	2SB709A	TRANSISTOR
Q3526	2SD601A-R	TRANSISTOR
Q3528	2SD601A-R	TRANSISTOR
Q3566	2SD601A-R	TRANSISTOR
Q3601	2SD601A-Q	TRANSISTOR
Q3602	2SB709A-R	TRANSISTOR
Q3603	2SB709A-R	TRANSISTOR
Q3604	2SD601A-Q	TRANSISTOR
Q3606	2SD601A-Q	TRANSISTOR
Q3607	2SD601A-Q	TRANSISTOR
Q3608	2SD601A-Q	TRANSISTOR
Q3609	2SD601A-Q	TRANSISTOR
Q3610	2SD601A-Q	TRANSISTOR
Q3611	2SB709A-R	TRANSISTOR
Q3612	2SD601A-Q	TRANSISTOR
Q3619	2SD601A-Q	TRANSISTOR
Q3621	2SD601A-Q	TRANSISTOR
Q3622	2SD601A-Q	TRANSISTOR
Q3623	2SD601A-Q	TRANSISTOR
Q3624	2SB709A-R	TRANSISTOR
Q3625	2SB709A-R	TRANSISTOR
Q3626	2SD601A-Q	TRANSISTOR
Q3627	2SB709A-R	TRANSISTOR
Q3628	2SD601A-Q	TRANSISTOR
Q3629	2SB709A-R	TRANSISTOR
Q3630	2SB709A-R	TRANSISTOR
Q3631	2SD601A-Q	TRANSISTOR
Q3632	2SB709A-R	TRANSISTOR
Q3633	2SB709A-R	TRANSISTOR
Q5501	2SD601A-Q	TRANSISTOR
Q5502	2SD601A-Q	TRANSISTOR
Q5503	2SD601A-Q	TRANSISTOR
Q5504	2SD601A-Q	TRANSISTOR
Q5505	2SD601A-Q	TRANSISTOR
Q5506	2SB709A-R	TRANSISTOR
Q5507	2SD601A-Q	TRANSISTOR

Ref.No.	Part No.	Description
Q5508	2SD601A-Q	TRANSISTOR
Q5509	2SD601A-Q	TRANSISTOR
Q5510	2SD601A-Q	TRANSISTOR
Q5511	2SD601A-Q	TRANSISTOR
Q5512	2SD601A-Q	TRANSISTOR
Q5513	2SD601A-Q	TRANSISTOR
Q5514	2SD601A-Q	TRANSISTOR
Q5515	2SD601A-Q	TRANSISTOR
Q5516	2SB709A-R	TRANSISTOR
Q5521	2SD601A-Q	TRANSISTOR
Q5522	2SD601A-Q	TRANSISTOR
Q5523	2SD601A-Q	TRANSISTOR
Q5524	2SD601A-Q	TRANSISTOR
Q5525	2SD601A-Q	TRANSISTOR
Q5526	2SD601A-Q	TRANSISTOR
Q5527	2SD601A-Q	TRANSISTOR
Q5528	2SD601A-Q	TRANSISTOR
Q5534	2SD601A-Q	TRANSISTOR
Q5535	2SD601A-Q	TRANSISTOR
Q5536	2SD601A-Q	TRANSISTOR
Q5537	2SD601A-Q	TRANSISTOR
Q5538	2SD601A-Q	TRANSISTOR
Q5539	2SD601A-Q	TRANSISTOR
Q5540	2SD601A-Q	TRANSISTOR
Q5541	2SD601A-Q	TRANSISTOR
Q5542	2SD601A-Q	TRANSISTOR
Q5543	2SD601A-Q	TRANSISTOR
Q5545	2SD601A-Q	TRANSISTOR
Q5546	2SD601A-Q	TRANSISTOR
Q5547	2SD601A-Q	TRANSISTOR
Q5548	2SD601A-Q	TRANSISTOR
Q5549	2SD601A-Q	TRANSISTOR
Q6601	2SC1685-Q	TRANSISTOR
Q6603	2SC1685-Q	TRANSISTOR
Q6604	2SC1685-Q	TRANSISTOR
Q6605	2SA564A-R	TRANSISTOR
Q6607	2SC1685-Q	TRANSISTOR
Q6608	2SC1685-Q	TRANSISTOR
Q6609	2SC1685-Q	TRANSISTOR
	DIODES	
D1	UR64LD1	LED
D301	MA29T-A	DIODE
D332	MA165	DIODE
D333	MA4091H	ZENER DIODE
D334	MA165	DIODE
D335	MA165	DIODE
D336	MA165	DIODE
D351	MA165	DIODE
D352	MA165	DIODE
D353	MA165	DIODE
D354	MA165	DIODE
D355	MA165	DIODE
D356	MA165	DIODE
D357	MA165	DIODE
D401	MA165	DIODE
D450	TVSEM1Z	DIODE
D451	MA29T-B	DIODE
D453	MA165	DIODE
D456	MA165	DIODE
D457	MA1390	DIODE
D458	AU02A	DIODE
D459	AU02A	DIODE
D461	MA150	DIODE
D466	MA165	DIODE
D467	MA165	DIODE
D468	MA165	DIODE
D501	MA4033M	DIODE
D503	MA4120M	ZENER DIODE
D551	MA4068M	ZENER DIODE
D552	MA165	DIODE
D553	MA165	DIODE
D554	MA4360M	ZENER DIODE
D555	MA4100H	ZENER DIODE
D559	TVSES1C	DIODE
D561	MA4300M	ZENER DIODE
D591	MA165	DIODE
D602	MA4082L	ZENER DIODE
D603	MA4082L	ZENER DIODE
D604	MA29WA	DIODE
D610	MA700	DIODE
D620	MA165	DIODE
D707	MA29T-B	DIODE
D708	MA165	DIODE
D720	ERD07-15	DIODE
D721	RU3N	DIODE
D722	MA29T-B	DIODE
D723	MA29T-B	DIODE
D724	MA165	DIODE
D725	MA4043M	ZENER DIODE
D801	D4SB80Z	DIODE
D802	MA165	DIODE
D803	ERA22-04	DIODE
D804	MA165	DIODE
D805	MA165	DIODE
D806	ERA22-10	DIODE
D807	TLP721FD4GR	PHOTO COUPLER ⚠
D808	ERA15-04	DIODE
D809	CR3CM-12	THYRISTOR
D810	TRPW5B0N120D	POSISTOR
D811	TRPW5B0N120D	POSISTOR
D814	ERC13-08	DIODE
D815	MA1075L	ZENER DIODE
D816	ERA15-04	DIODE
D817	MA1150M	ZENER DIODE
D818	ERC13-08	DIODE
D819	TLP721FD4GR	PHOTO COUPLER ⚠
D820	MA4110H	ZENER DIODE
D821	MA4075M	ZENER DIODE
D822	MA165	DIODE
D823	MA2240B	ZENER DIODE
D824	ERA15-01	DIODE
D825	MA2082-A	DIODE

Ref.No.	Part No.	Description
D830	RL3Z	DIODE
D831	FMLG16S	DIODE
D832	MA4104J	ZENER DIODE
D833	FML22S	DIODE
D834	MA165	DIODE
D835	MA165	DIODE
D836	TVSEU2	DIODE
D838	MA2051-B	DIODE
D840	MA2051-B	DIODE
D851	ERA15-01	DIODE
D852	ERA15-01	DIODE
D853	ERA15-01	DIODE
D854	ERA15-01	DIODE
D855	MA165	DIODE
D856	MA165	DIODE
D857	MA4150M	ZENER DIODE
D858	MA4100NL	DIODE
D859	MA165	DIODE
D862	MA4160L	DIODE
D863	ERA15-04	DIODE
D865	ERA15-01	DIODE
D871	MA150	DIODE
D901	MA165	DIODE
D955	MA29WB	DIODE
D959	MA165	DIODE
D1003	LN81RPH	LED (ORANGE)
D1004	LN11WP38	LED
D1005	MA1051L	ZENER DIODE
D1102	MA4075M	ZENER DIODE
D1103	MA4075M	ZENER DIODE
D1104	MA4043M	ZENER DIODE
D1106	MA4075M	ZENER DIODE
D1108	MA165	DIODE
D1109	MA4150H	ZENER DIODE
D1110	MA4150H	ZENER DIODE
D1111	MA4200M	ZENER DIODE
D1201	MA165	DIODE
D1209	MA165	DIODE
D1218	MA4075H	ZENER DIODE
D1224	MA165	DIODE
D1225	MA4075L	ZENER DIODE
D1227	MA700	DIODE
D1228	MA165	DIODE
D1231	MA4068M	ZENER DIODE
D1232	MA4068M	ZENER DIODE
D1844	MA3068M	ZENER DIODE
D1845	MA3068M	ZENER DIODE
D2001	BB405B	DIODE
D2003	MA151K	DIODE
D2004	BB809	DIODE
D2014	MA57	DIODE
D2020	MA862	DIODE
D2021	MA862	DIODE
D2206	MA704	DIODE
D2303	MA4360M	ZENER DIODE
D2304	MA4360M	ZENER DIODE
D2306	MA4360M	ZENER DIODE
D2308	MA3360M	DIODE
D2309	MA3360M	DIODE
D2311	MA3360M	DIODE
D2312	MA3360M	DIODE
D2313	MA165	DIODE
D2314	MA3062M	DIODE
D2315	MA3062M	DIODE
D2316	MA3062M	DIODE
D2351	MA150	DIODE
D2352	MA150	DIODE
D2353	MA150	DIODE
D2355	ERD25V0R00	C 0OHM, 1/4W
D2429	MA165	DIODE
D3036	MA151K	DIODE
D3037	MA3180M	DIODE
D3509	MA3082M	DIODE
D3526	MA151K	DIODE
D3527	MA3082M	DIODE
D3528	MA151K	DIODE
D3529	MA151K	DIODE
D3530	MA151K	DIODE
D3541	MA151K	DIODE
D3542	MA151K	DIODE
D3566	MA151WA	DIODE
D3567	MA151WA	DIODE
D3568	MA151WA	DIODE
D3602	MA151K	DIODE
D5501	MA151K	DIODE
D5502	MA151K	DIODE
D5503	MA151K	DIODE
D5504	MA151K	DIODE
D5506	MA151K	DIODE
D6601	MA4039H	DIODE
D6602	MA165	DIODE
D6603	MA165	DIODE
D6604	MA165	DIODE
D6605	MA165	DIODE
D6606	MA165	DIODE
D6607	MA165	DIODE
	COILS	
DL3275	ELB4M120B	DELAY LINE
DL5501	ELB4N058B	LC FILTER
L101	EIV7EN191Q	COIL
L102	TLT010K991K	PEAKING COIL 1U
L103	TLTACC100K	PEAKING COIL 10U
L104	TLT082K991K	PEAKING COIL 8.2U
L105	EIV7EN034B	COIL
L106	EIV7EN150B	COIL
L109	EIV7EN175B	COIL
L110	TLT121K991K	PEAKING COIL 120U
L112	TLT082K991K	PEAKING COIL 8.2U
L140	TLT150K991K	PEAKING COIL 15U
L141	TLT100K991K	PEAKING COIL 10U
L142	TLT150K991K	PEAKING COIL 15U
L143	TLT180K991K	PEAKING COIL 18U

Ref.No.	Part No.	Description
L201	EIS7ES002B	COIL
L203	TLT100K991K	PEAKING COIL 10U
L331	TSK1002-1	CHOKE COIL
L355	TLT560K991K	PEAKING COIL 56U
L356	TLT560K991K	PEAKING COIL 56U
L357	TLT560K991K	PEAKING COIL 56U
L358	TLT270K991K	PEAKING COIL 27U
L359	TLT120K991K	PEAKING COIL 12U
L360	TLT270K991K	PEAKING COIL 27U
L361	EXCELSA35	BEAD CHOKE
L362	EXCELDR25C	BEAD CHOKE
L551	EXCELSA35	BEAD CHOKE
L553	EXCELSA35	BEAD CHOKE
L603	TLT470K991K	PEAKING COIL 47U
L607	TLTACC220K	PEAKING COIL 22U
L611	EXCELDR25C	BEAD CHOKE
L612	TLTACC220K	PEAKING COIL 22U
L620	ERD25TC0	C 0 OHM, 1/4W
L708	TLT101K991K	PEAKING COIL 100U
L720	EXCELSA35	BEAD CHOKE
L721	ELHKLB004B	HORIZONTAL COIL
L722	ELC18B050	CHOKE COIL
L723	ELEIE682KA	PEAKING COIL
L724	ELHKLB003B	HORIZONTAL COIL
L801	EXCELSA35	BEAD CHOKE
L802	EXCELSA39E	BEAD CHOKE
L806	EXCELSA35	BEAD CHOKE
L807	EXCELDR25C	BEAD CHOKE
L810	EXCELSA35	BEAD CHOKE
L811	EXCELDR25C	BEAD CHOKE (ONLY FOR TX-28WG10X)
L830	EXCELSA35	BEAD CHOKE
L831	ELEIE101KA	PEAKING COIL
L832	EXCELSA35	BEAD CHOKE
L833	EXCELSA35	BEAD CHOKE
L834	ELEIE101KA	PEAKING COIL
L835	EXCELSA35	BEAD CHOKE
L836	EXCELSA35	BEAD CHOKE
L837	EXCELSA35	BEAD CHOKE
L838	EXCELSA35	BEAD CHOKE
L839	EXCELSA35	BEAD CHOKE
L840	EXCELSA35	BEAD CHOKE
L841	ELEIE101KA	PEAKING COIL
L842	ELEIE101KA	PEAKING COIL
L843	ELEIE101KA	PEAKING COIL
L847	EXCELSA35	BEAD CHOKE
L848	EXCELSA35	BEAD CHOKE
L849	EXCELSA35	BEAD CHOKE
L850	EXCELDR25C	BEAD CHOKE
L853	ERDS2TC0	C 0 OHM, 1/4W
L870	ELF18D856A	LINE FILTER ⚠
L871	ELF18D856A	LINE FILTER ⚠
L872	ELF18D850W	LINE FILTER ⚠
L953	TSK1002-1	CHOKE COIL
L954	TSK1002-1	CHOKE COIL

Ref.No.	Part No.	Description
L1001	EXCELSA35	BEAD CHOKE (ONLY FOR TX-24WG10X)
L1002	EXCELSA35	BEAD CHOKE (ONLY FOR TX-24WG10X)
L1101	EXCELDR25C	BEAD CHOKE
L1102	EXCELDR25C	BEAD CHOKE
L1103	TLTACC121K	PEAKING COIL 120U
L1104	EXCELSA35	BEAD CHOKE
L1130	ERD25TC0	C 0 OHM, 1/4W
L1136	TLT100K991K	PEAKING COIL 10U
L1137	TLT100K991K	PEAKING COIL 10U
L1207	TLTABT100K	PEAKING COIL 10U
L1208	TLTABT100K	PEAKING COIL 10U
L1210	TLTABT100K	PEAKING COIL 10U
L1213	EXCELDR25C	BEAD CHOKE
L1236	EXCELSA35	BEAD CHOKE
L1237	EXCELSA35	BEAD CHOKE
L1238	TLTABT100K	PEAKING COIL 10U
L1239	EXCELSA35	BEAD CHOKE
L1240	TLTACC100K	PEAKING COIL 10U
L1241	EXCELDR25C	BEAD CHOKE
L1242	EXCELDR25C	BEAD CHOKE
L1243	ELEXH3R3KA	PEAKING COIL 3.3U
L1244	ELEXH3R3KA	PEAKING COIL 3.3U
L1253	TLTABT100K	PEAKING COIL 10U
L1301	ERD25TC0	C 0 OHM, 1/4W
L1302	ERD25TC0	C 0 OHM, 1/4W
L2001	TLT102K991K	PEAKING COIL 1M
L2002	TLT102K991K	PEAKING COIL 1M
L2003	EXCEMT103DC	EMI FILTER
L2004	EXCEMT103DC	EMI FILTER
L2005	EXCELDR25C	BEAD CHOKE
L2006	EXCELDR25C	BEAD CHOKE
L2007	EXCELDR25C	BEAD CHOKE
L2008	EXCELDR25C	BEAD CHOKE
L2010	TLTACC120K	PEAKING COIL 12U
L2011	EXCELDR25C	BEAD CHOKE
L2012	TLTACC180K	PEAKING COIL 18U
L2013	TLTACC180K	PEAKING COIL 18U
L2020	EXCELDR25C	BEAD CHOKE
L2021	EXCELDR25C	BEAD CHOKE
L2023	EXCELDR25C	BEAD CHOKE
L2025	EXCELDR25C	BEAD CHOKE
L2026	EXCELDR25C	BEAD CHOKE
L2027	EXCELDR25C	BEAD CHOKE
L2028	EXCEMT101BC	EMI FILTER
L2030	TLTACC120K	PEAKING COIL 12U
L2031	TLTACC180K	PEAKING COIL 18U
L2110	EIS7EN036B	COIL
L2302	EXCELSA35	BEAD CHOKE
L3001	ERD25V0R00	C 0OHM, 1/4W
L3002	ERD25V0R00	C 0OHM, 1/4W
L3003	ERD25V0R00	C 0OHM, 1/4W
L3004	TLT100K991K	PEAKING COIL 10U
L3006	TLT820K991K	PEAKING COIL 82U
L3007	TLT560K991K	PEAKING COIL 56U

Ref.No.	Part No.	Description
L3015	TLT560K991K	PEAKING COIL 56U
L3368	TLT220K991K	PEAKING COIL 22U
L3373	TLT047K991K	PEAKING COIL 4.7U
L3501	ELEY4R7KA	PEAKING COIL
L3504	TLT100K991K	PEAKING COIL 10U
L3507	TLT100K991K	PEAKING COIL 10U
L3508	TLT033K991K	PEAKING COIL 3.3U
L3509	TLT033K991K	PEAKING COIL 3.3U
L3510	TLT100K991K	PEAKING COIL 10U
L3511	TLT033K991K	PEAKING COIL 3.3U
L3512	TLT033K991K	PEAKING COIL 3.3U
L3516	TLTACC4R7K	PEAKING COIL 4.7U
L3518	EXCELDR25C	BEAD CHOKE
L5501	TLT270K991K	PEAKING COIL 27U
L5502	TLT390K991K	PEAKING COIL 39U
L5503	TLT150K991K	PEAKING COIL 15U
L5504	TLT150K991K	PEAKING COIL 15U
L5506	TLT100K991K	PEAKING COIL 10U
L5507	TLT470K991K	PEAKING COIL 47U
L5508	TLT047K991K	PEAKING COIL 4.7U
L5510	TLT150K991K	PEAKING COIL 15U
L5511	EXCELDR25C	BEAD CHOKE
L5512	EXCELDR25C	BEAD CHOKE
L5513	EXCELDR25C	BEAD CHOKE
L5515	TLT220K991K	PEAKING COIL 22U
L5516	EXCELDR25C	BEAD CHOKE
L5518	TLT100K991K	PEAKING COIL 10U
L5519	TLT100K991K	PEAKING COIL 10U
L5521	TLT101K991K	PEAKING COIL 100U
LC3601	ELB4H057B	FILTER
LC3603	ELB4T039B	LC FILTER
LC5501	ELB4K131B	FILTER
LC5502	EIL7EN008P	COIL
LC5503	ELB4T038B	LC FILTER
	TRANSFORMERS	
T501	ZTFG47028A	FLYBACK TRANS ⚠
T551	ETH19Y70AY	H DRIVE TRANS
T801	ETS45FA126NC	SWITCHING TRANS ⚠ (ONLY FOR TX-28WG10X)
T801	ETS41FA136NC	SWITCHING TRANS ⚠ (ONLY FOR TX-24WG10X)
T802	ETP35Z207BF	REMOCON TRANS ⚠
T2001	TLS158X54Q	COIL
T2002	TLS158X53Q1	COIL
	RESISTORS	
R1	ERJ8GEYJ1R8	M 1.8 OHM, J,1/8W
R101	ERJ6GEYJ822	M 8.2KOHM,J,1/10W
R102	ERJ6GEYJ102	M 1KOHM,J,1/10W
R103	ERD25FJ220	C 22 OHM, J,1/4W
R104	ERJ6GEYJ821	M 820 OHM,J,1/10W
R105	ERJ6GEYJ182	M 1.8KOHM,J,1/10W
R109	ERJ6GEYJ331	M 330 OHM,J,1/10W
R110	ERJ6GEYJ682	M 6.8KOHM,J,1/10W
R111	ERJ6GEYJ153	M 15KOHM,J,1/10W
R114	ERJ6GEYJ681	M 680 OHM,J,1/10W
R115	ERJ6GEYJ680	M 68 OHM,J,1/10W
R116	ERJ6GEYJ152	M 1.5KOHM,J,1/10W
R117	ERJ6GEYJ272	M 2.7KOHM,J,1/10W
R118	ERJ6GEYJ273	M 27KOHM,J,1/10W
R119	ERJ6GEYJ273	M 27KOHM,J,1/10W
R120	ERJ6GEYJ331	M 330 OHM,J,1/10W
R122	ERJ6GEYJ473	M 47KOHM,J,1/10W
R126	ERJ6GEYJ391	M 390 OHM,J,1/10W
R128	ERJ6GEYJ121	M 120 OHM,J,1/10W
R129	ERJ6GEYJ560	M 56 OHM,J,1/10W
R142	ERJ6GEYJ473	M 47KOHM,J,1/10W
R147	ERJ6GEYJ102	M 1KOHM,J,1/10W
R151	ERJ6GEYJ331	M 330 OHM,J,1/10W
R152	ERJ6GEYJ431	M 430 OHM,J,1/10W
R153	ERJ6GEYJ221	M 220 OHM,J,1/10W
R154	ERJ6GEYJ331	M 330 OHM,J,1/10W
R160	ERJ6GEYJ102	M 1KOHM,J,1/10W
R163	ERJ6GEYJ331	M 330 OHM,J,1/10W
R170	ERJ6GEY0R00	M 0 OHM,J,1/10W
R172	ERJ6GEYJ562	M 5.6KOHM,J,1/10W
R174	ERJ6GEYJ221	M 220 OHM,J,1/10W
R175	ERJ6GEYJ682	M 6.8KOHM,J,1/10W
R178	EVND4AA00B13	CONTROL 1KOHMB
R179	ERJ6GEYJ182	M 1.8KOHM,J,1/10W
R187	ERJ6GEY0R00	M 0 OHM,J,1/10W
R188	ERJ6GEY0R00	M 0 OHM,J,1/10W
R196	ERJ6GEY0R00	M 0 OHM,J,1/10W
R197	ERJ6GEYJ392	M 3.9KOHM,J,1/10W
R199	ERJ6GEYJ103	M 10KOHM,J,1/10W
R201	ERJ6GEYJ681	M 680 OHM,J,1/10W
R202	ERJ6GEYJ392	M 3.9KOHM,J,1/10W
R203	ERJ6GEYJ471	M 470 OHM,J,1/10W
R205	ERJ6GEYJ101	M 100 OHM,J,1/10W
R206	ERJ6GEYJ101	M 100 OHM,J,1/10W
R208	ERJ6GEY0R00	M 0 OHM,J,1/10W
R209	ERJ6GEYJ102	M 1KOHM,J,1/10W
R221	ERJ6GEYJ101	M 100 OHM,J,1/10W
R245	ERJ6GEYJ471	M 470 OHM,J,1/10W
R246	ERJ6GEYJ471	M 470 OHM,J,1/10W
R247	ERJ6GEY0R00	M 0 OHM,J,1/10W
R248	ERJ6GEYJ471	M 470 OHM,J,1/10W
R252	ERJ6GEYJ471	M 470 OHM,J,1/10W
R301	ERDS2TJ274	C 270KOHM, J,1/4W
R303	ERDS2TJ333	C 33KOHM, J,1/4W
R304	ERDS2TJ362	C 3.6KOHM, J,1/4W
R305	ERDS2TJ392	C 3.9KOHM, J,1/4W
R307	ERDS2TJ392	C 3.9KOHM, J,1/4W
R309	ERDS2TJ681	C 680 OHM, J,1/4W
R314	ERDS2TJ153	C 15KOHM, J,1/4W
R332	ERDS2TJ683	C 68KOHM, J,1/4W (ONLY FOR TX-28WG10X)
R332	ERDS2TJ103	C 10KOHM, J,1/4W (ONLY FOR TX-24WG10X)
R350	ERD25TJ203	C 20KOHM, J,1/4W
R351	ERDS2TJ181	C 180 OHM, J,1/4W
R352	ERDS2TJ181	C 180 OHM, J,1/4W
R353	ER0S2CKF1800	M 180 OHM, F,1/4W

Ref.No.	Part No.	Description
R357	ERDS2TJ221	C 220 OHM, J,1/4W
R358	ERDS2TJ221	C 220 OHM, J,1/4W
R359	ERDS2TJ221	C 220 OHM, J,1/4W
R360	ERDS2TJ151	C 150 OHM, J,1/4W
R361	ERDS2TJ151	C 150 OHM, J,1/4W
R362	ER0S2CKF1500	M 150 OHM, F,1/4W
R366	ERD25TJ124	C 120KOHM, J,1/4W
R367	ERDS2TJ221	C 220 OHM, J,1/4W
R368	ERDS2TJ221	C 220 OHM, J,1/4W
R369	ERDS2TJ221	C 220 OHM, J,1/4W
R370	ERDS2TJ101	C 100 OHM, J,1/4W
R371	ER0S2CKF6800	M 680 OHM, F,1/4W
R372	ER0S2CKF6800	M 680 OHM, F,1/4W
R373	ER0S2CKF6800	M 680 OHM, F,1/4W
R374	ERG2SJ183H	M 18KOHM, J, 2W
R375	ERG2SJ183H	M 18KOHM, J, 2W
R376	ERG2SJ183H	M 18KOHM, J, 2W
R377	ERG2SJ183H	M 18KOHM, J, 2W
R378	ERG2SJ183H	M 18KOHM, J, 2W
R379	ERG2SJ183H	M 18KOHM, J, 2W
R380	ERDS2TJ330	C 33 OHM, J,1/4W
R381	ERDS2TJ330	C 33 OHM, J,1/4W
R382	ERDS2TJ330	C 33 OHM, J,1/4W
R383	ERDS2TJ330	C 33 OHM, J,1/4W
R384	ERDS2TJ330	C 33 OHM, J,1/4W
R385	ERDS2TJ330	C 33 OHM, J,1/4W
R386	ERDS2TJ103	C 10KOHM, J,1/4W
R387	ERDS2TJ103	C 10KOHM, J,1/4W
R388	ER0S2CKF1002	M 10KOHM, F,1/4W
R389	ERC14GK102	S 1KOHM, G,1/4W
R390	ERC14GK102	S 1KOHM, G,1/4W
R391	ERC14GK102	S 1KOHM, G,1/4W
R392	ERDS1TJ394	C 390KOHM, J,1/2W
R393	ERG2SJ331H	M 330 OHM, J, 2W (ONLY FOR TX-28WG10X)
R393	ERG2SJ221H	M 220 OHM, J, 2W (ONLY FOR TX-24WG10X)
R394	ERD25FJ101	C 100 OHM, J,1/4W
R395	ERDS2TJ432	C 4.3KOHM, J,1/4W
R396	ERDS2TJ122	C 1.2KOHM, J,1/4W
R397	ERDS2TJ332	C 3.3KOHM, J,1/4W
R398	ERDS2TJ472	C 4.7KOHM, J,1/4W
R399	ERDS2TJ101	C 100 OHM, J,1/4W
R401	ERDS2TJ101	C 100 OHM, J,1/4W
R402	ERDS2TJ223	C 22KOHM, J,1/4W
R403	ERDS2TJ103	C 10KOHM, J,1/4W
R404	ERDS2TJ103	C 10KOHM, J,1/4W
R409	ERDS2TJ333	C 33KOHM, J,1/4W
R410	ERDS2TJ123	C 12KOHM, J,1/4W
R441	ER0S2CKF2211	M2.21KOHM, F,1/4W
R442	ER0S2CKF2051	M2.05KOHM, F,1/4W
R443	EVND1AA00B33	CONTROL 3KOHMB
R443	EVN38CA00B33	CONTROL 3KOHMB
R444	ERDS2TJ103	C 10KOHM, J,1/4W
R445	EVN32CA00B33	CONTROL 3KOHMB
R450	ERDS2TJ561	C 560 OHM, J,1/4W

Ref.No.	Part No.	Description
R452	ERDS2TJ223	C 22KOHM, J,1/4W
R453	ERDS2TJ332	C 3.3KOHM, J,1/4W
R454	ERDS2CKF2R40	C 1.2 OHM, F,1/4W
R458	ERDS2TJ101	C 100 OHM, J,1/4W
R459	ERQ12AJ4R7P	F 4.7 OHM, J,1/2W ⚠
R460	ERQ12AJ4R7P	F 4.7 OHM, J,1/2W ⚠
R462	ERDS2CKF2R40	C 1.2 OHM, F,1/4W
R463	ERQ12AJ4R7P	F 4.7 OHM, J,1/2W ⚠
R464	ERDS1FJ1R0	C 1 OHM, J,1/2W
R466	ERDS2TJ103	C 10KOHM, J,1/4W
R467	ERDS2TJ103	C 10KOHM, J,1/4W
R468	ERQ12AJ4R7P	F 4.7 OHM, J,1/2W ⚠
R469	ERDS1FJ1R0	C 1 OHM, J,1/2W
R470	ERDS2TJ103	C 10KOHM, J,1/4W
R471	ERDS2TJ102	C 1KOHM, J,1/4W
R472	ERDS2TJ102	C 1KOHM, J,1/4W
R473	ERDS2TJ332	C 3.3KOHM, J,1/4W
R474	ERDS2TJ683	C 68KOHM, J,1/4W
R475	ERDS2TJ224	C 220KOHM, J,1/4W
R476	ERDS2TJ333	C 33KOHM, J,1/4W
R477	ER0S2CKF8251	M8.25KOHM, F,1/4W
R478	ERDS2TJ101	C 100 OHM, J,1/4W
R479	ER0S2CKF2211	M2.21KOHM, F,1/4W
R480	ERG1FJS331E	M 330OHM, J, 1W
R481	ER0S2CKF1002	M 10KOHM, F,1/4W
R482	ER0S2CKF4702	M 47KOHM, F,1/4W
R483	ER0S2CKF8251	M8.25KOHM, F,1/4W
R484	ER0S2CKF1102	M 11KOHM, F,1/4W
R485	ER0S2CKF8251	M8.25KOHM, F,1/4W
R486	ER0S2CKF2151	M2.15KOHM, F,1/4W
R487	ER0S2CKF3481	M3.48KOHM, F,1/4W
R488	ER0S2CKF2371	M2.37KOHM, F,1/4W
R489	ER0S2CKF1822	M18.2KOHM, F,1/4W
R490	ER0S2CKF1502	M 15KOHM, F,1/4W
R491	ERDS1FJ1R0	C 1 OHM, J,1/2W
R492	ER0S2CKF1502	M 15KOHM, F,1/4W
R493	ERDS2TJ332	C 3.3KOHM, J,1/4W
R501	ERDS2TJ101	C 100 OHM, J,1/4W
R505	ERDS2TJ222	C 2.2KOHM, J,1/4W
R506	ERDS2TJ391	C 390 OHM, J,1/4W
R507	ER0S2CKF1500	M 150 OHM, F,1/4W
R509	ER0S2CKF4700	M 470 OHM, F,1/4W
R511	ERDS2TJ331	C 330 OHM, J,1/4W
R512	ERDS2TJ222	C 2.2KOHM, J,1/4W
R513	ERDS2TJ274	C 270KOHM, J,1/4W
R538	ERDS2TJ123	C 12KOHM, J,1/4W
R552	ERDS2TJ153	C 15KOHM, J,1/4W
R553	ERDS2TJ562	C 5.6KOHM, J,1/4W
R554	ERDS2TJ682	C 6.8KOHM, J,1/4W
R555	ERDS2TJ471	C 470 OHM, J,1/4W
R556	ERDS2TJ182	C 1.8KOHM, J,1/4W
R557	ERF10ZK2R2	W 2.2OHM, 10W
R558	ERG3FJX153E	M 15KOHM, J, 3W
R559	ERQ3CJ152	F 1.5KOHM, J, 3W ⚠ (ONLY FOR TX-28WG10X)

Ref.No.	Part No.	Description
R559	ERQ3CJ122	F 1.2KOHM, J, 3W ⚠ (ONLY FOR TX-24WG10X)
R560	ER0S2CKF3900	M 390 OHM, F,1/4W
R561	ER0S2CKF2200	M 220 OHM, F,1/4W
R562	ERG3ANJ332H	M 3.3KOHM, J, 3W
R563	ERDS2TJ182	C 1.8KOHM, J,1/4W
R564	ERDS2TJ332	C 3.3KOHM, J,1/4W
R565	ERDS2TJ102	C 1KOHM, J,1/4W
R566	ERDS2TJ221	C 220 OHM, J,1/4W
R567	ERDS2TJ103	C 10KOHM, J,1/4W
R570	ERDS2TJ223	C 22KOHM, J,1/4W
R571	ERDS2TJ223	C 22KOHM, J,1/4W
R575	ERDS2TJ824	C 820KOHM, J,1/4W
R576	ERQ12HJ2R7	F 2.7 OHM, J,1/2W ⚠
R577	ERQ12HJ2R7	F 2.7 OHM, J,1/2W ⚠
R578	ERDS1FJ394	C 390KOHM, J,1/2W
R580	ERQ2CJP2R4S	F 2.4 OHM, J, 2W ⚠ (ONLY FOR TX-28WG10X)
R580	ERQ2CJP2R7S	F 2.7 OHM, J, 2W ⚠ (ONLY FOR TX-24WG10X)
R582	ERDS2TJ103	C 10KOHM, J,1/4W
R583	ERDS2TJ333	C 33KOHM, J,1/4W
R584	ERDS2TJ123	C 12KOHM, J,1/4W
R585	ERDS2TJ154	C 150KOHM, J,1/4W
R586	ERDS2TJ473	C 47KOHM, J,1/4W
R588	ERDS2TJ562	C 5.6KOHM, J,1/4W
R594	ERDS2TJ103	C 10KOHM, J,1/4W
R595	ERDS2TJ103	C 10KOHM, J,1/4W
R596	ERDS1FJ333	C 33KOHM, J,1/2W
R597	ER0S2CKF2202	M 22KOHM, F,1/4W
R598	ER0S2CKF3652	M36.5KOHM, F,1/4W (ONLY FOR TX-28WG10X)
R598	ER0S2CKF5622	M56.2KOHM, F,1/4W (ONLY FOR TX-24WG10X)
R599	ER0S2CKF3242	M32.4KOHM, F,1/4W
R609	ER0S2CKF1072	M10.7KOHM, F,1/4W
R612	ERDS2TJ822	C 8.2KOHM, J,1/4W
R614	ERDS2TJ101	C 100 OHM, J,1/4W
R616	ERDS2TJ222	C 2.2KOHM, J,1/4W
R617	ERDS2TJ331	C 330 OHM, J,1/4W
R618	ERDS2TJ331	C 330 OHM, J,1/4W
R619	ERDS2TJ331	C 330 OHM, J,1/4W
R622	ERDS2TJ221	C 220 OHM, J,1/4W
R623	ERDS2TJ221	C 220 OHM, J,1/4W
R624	ERDS2TJ221	C 220 OHM, J,1/4W
R625	ERDS2TJ103	C 10KOHM, J,1/4W
R627	ERDS2TJ102	C 1KOHM, J,1/4W
R629	ERDS2TJ102	C 1KOHM, J,1/4W
R631	ERDS2TJ101	C 100 OHM, J,1/4W
R632	ERDS2TJ101	C 100 OHM, J,1/4W
R633	ERDS2TJ101	C 100 OHM, J,1/4W
R634	ERDS2TJ102	C 1KOHM, J,1/4W
R635	ERDS2TJ331	C 330 OHM, J,1/4W
R636	ERDS2TJ475	C 4.7MOHM, J,1/4W
R637	ERDS2TJ122	C 1.2KOHM, J,1/4W
R640	ERDS2TJ153	C 15KOHM, J,1/4W
R642	ERJ6GEYJ102	M 1KOHM,J,1/10W
R649	ERDS2TJ272	C 2.7KOHM, J,1/4W
R651	ERDS2TJ101	C 100 OHM, J,1/4W
R652	ERDS2TJ331	C 330 OHM, J,1/4W
R653	ER0S2CKF3481	M3.48KOHM, F,1/4W
R654	ERDS2TJ332	C 3.3KOHM, J,1/4W
R656	ERDS2TJ392	C 3.9KOHM, J,1/4W
R657	ERDS2TJ472	C 4.7KOHM, J,1/4W
R658	ERDS2TJ102	C 1KOHM, J,1/4W
R659	ERJ6GEYJ103	M 10KOHM,J,1/10W
R660	ERJ6GEYJ182	M 1.8KOHM,J,1/10W
R661	ERDS2TJ395	C 3.9MOHM, J,1/4W
R662	ERDS2TJ102	C 1KOHM, J,1/4W
R663	ERDS2TJ475	C 4.7MOHM, J,1/4W
R664	ERDS2TJ330	C 33 OHM, J,1/4W
R665	ERDS2TJ102	C 1KOHM, J,1/4W
R668	ERDS2TJ102	C 1KOHM, J,1/4W
R669	ERDS2TJ101	C 100 OHM, J,1/4W
R671	ER0S2CKF4121	M4.12KOHM, F,1/4W
R672	ERDS2TJ332	C 3.3KOHM, J,1/4W
R673	ERDS2TJ392	C 3.9KOHM, J,1/4W
R674	ERDS2TJ472	C 4.7KOHM, J,1/4W
R676	ERDS2TJ102	C 1KOHM, J,1/4W
R678	ER0S2CKF2002	M 20KOHM, F,1/4W
R679	ERDS2TJ104	C 100KOHM, J,1/4W
R680	ERDS2TJ103	C 10KOHM, J,1/4W
R684	ERDS2TJ333	C 33KOHM, J,1/4W
R693	ERDS2TJ333	C 33KOHM, J,1/4W
R695	ERDS2TJ683	C 68KOHM, J,1/4W
R696	ERDS2TJ102	C 1KOHM, J,1/4W
R701	ERDS2TJ223	C 22KOHM, J,1/4W
R702	ERDS2TJ472	C 4.7KOHM, J,1/4W
R703	ERDS2TJ471	C 470 OHM, J,1/4W
R704	ERDS2TJ471	C 470 OHM, J,1/4W
R707	ERDS2TJ183	C 18KOHM, J,1/4W
R708	ERDS2TJ102	C 1KOHM, J,1/4W
R709	ERDS2TJ102	C 1KOHM, J,1/4W
R712	ERDS2TJ102	C 1KOHM, J,1/4W
R713	ERDS2TJ101	C 100 OHM, J,1/4W
R714	ERDS2TJ822	C 8.2KOHM, J,1/4W
R715	ERDS2TJ682	C 6.8KOHM, J,1/4W
R716	ERDS2TJ104	C 100KOHM, J,1/4W
R717	ERDS2TJ224	C 220KOHM, J,1/4W
R718	ERDS2TJ363	C 36KOHM, J,1/4W
R720	ERQ2CJ561	F 560 OHM, J, 2W ⚠
R721	ERQ1CJ101	F 100 OHM, J, 1W ⚠
R722	ERQ2CJ561	F 560 OHM, J, 2W ⚠
R723	ERDS2TJ123	C 12KOHM, J,1/4W
R724	ERDS2TJ272	C 2.7KOHM, J,1/4W
R725	ERDS2TJ182	C 1.8KOHM, J,1/4W
R726	ERDS2TJ913	C 91KOHM, J,1/4W
R727	ERDS2TJ363	C 36KOHM, J,1/4W
R728	ERDS2TJ224	C 220KOHM, J,1/4W
R729	ERDS2TJ123	C 12KOHM, J,1/4W
R730	ERDS2TJ272	C 2.7KOHM, J,1/4W
R731	ERDS2TJ182	C 1.8KOHM, J,1/4W

TX-24 / 28WG10X

Ref.No.	Part No.	Description
R732	EVND1AA00B54	CONTROL 50KOHMB
R733	ERDS2TJ102	C 1KOHM, J,1/4W
R734	ERDS2TJ472	C 4.7KOHM, J,1/4W
R735	ERDS2TJ103	C 10KOHM, J,1/4W
R736	ERDS2TJ682	C 6.8KOHM, J,1/4W
R737	ERDS2TJ123	C 12KOHM, J,1/4W
R738	ERDS2TJ223	C 22KOHM, J,1/4W
R739	ERDS2TJ561	C 560 OHM, J,1/4W
R740	ERDS2TJ123	C 12KOHM, J,1/4W
R741	ERDS2TJ473	C 47KOHM, J,1/4W
R742	ERDS2TJ273	C 27KOHM, J,1/4W
R743	ERDS2TJ103	C 10KOHM, J,1/4W
R744	ERDS2TJ332	C 3.3KOHM, J,1/4W
R745	ERDS2TJ473	C 47KOHM, J,1/4W
R746	ERDS2TJ273	C 27KOHM, J,1/4W
R747	ERDS2TJ561	C 560 OHM, J,1/4W
R748	ERDS2TJ561	C 560 OHM, J,1/4W
R749	ERDS2TJ104	C 100KOHM, J,1/4W
R750	ERDS2TJ104	C 100KOHM, J,1/4W
R751	ERDS2TJ103	C 10KOHM, J,1/4W
R752	ERDS2TJ103	C 10KOHM, J,1/4W
R753	ERDS2TJ103	C 10KOHM, J,1/4W
R754	ERDS2TJ103	C 10KOHM, J,1/4W
R755	ERDS2TJ224	C 220KOHM, J,1/4W
R756	ERDS2TJ681	C 680 OHM, J,1/4W
R757	ERDS2TJ222	C 2.2KOHM, J,1/4W
R758	ERDS2TJ102	C 1KOHM, J,1/4W
R759	ERDS2TJ272	C 2.7KOHM, J,1/4W
R760	ERDS2TJ103	C 10KOHM, J,1/4W
R761	ERDS2TJ183	C 18KOHM, J,1/4W
R762	ERDS2TJ102	C 1KOHM, J,1/4W
R763	ERDS2TJ681	C 680 OHM, J,1/4W
R764	ERDS2TJ271	C 270 OHM, J,1/4W
R766	ERQ1CJ6R8	F 6.8 OHM, J, 1W ⚠
R775	ERDS2TJ103	C 10KOHM, J,1/4W
R776	ERDS2TJ472	C 4.7KOHM, J,1/4W
R777	ERDS2TJ223	C 22KOHM, J,1/4W
R781	ERF5ZJ121	W 120 OHM, J, 5W
R782	ERDS2TJ472	C 4.7KOHM, J,1/4W
R783	ERG5SJ471H	M 470 OHM, J, 5W
R785	ERDS2TJ472	C 4.7KOHM, J,1/4W
R786	ERDS2TJ472	C 4.7KOHM, J,1/4W
R787	ERDS2TJ223	C 22KOHM, J,1/4W
R801	ERF10ZK4R7	W 4.7OHM, 10W
R802	ERD25TJ681	C 680 OHM, J,1/4W
R803	ERDS2TJ332	C 3.3KOHM, J,1/4W
R804	ERG2SJ273H	M 27KOHM, J, 2W
R805	ERG2SJ273H	M 27KOHM, J, 2W
R806	ERDS2TJ392	C 3.9KOHM, J,1/4W
R807	ERDS2TJ392	C 3.9KOHM, J,1/4W
R808	ERG3FJX104E	M 100KOHM, 3W
R809	ERX12SJR27P	M0.27 OHM, J,1/2W
R810	ERX12SJR27P	M0.27 OHM, J,1/2W
R811	ERDS2TJ561	C 560 OHM, J,1/4W
R812	ERDS2TJ222	C 2.2KOHM, J,1/4W
R813	ERDS2TJ222	C 2.2KOHM, J,1/4W

Ref.No.	Part No.	Description
R814	ERDS2TJ332	C 3.3KOHM, J,1/4W
R815	ERD75TAJ825	C 8.2MOHM, J,3/4W ⚠
R816	ERG2ANJ333H	M 33KOHM, J, 2W
R817	ERG2ANJ333H	M 33KOHM, J, 2W
R818	ERDS2TJ222	C 2.2KOHM, J,1/4W
R819	ERDS2TJ222	C 2.2KOHM, J,1/4W
R820	ERG5SJ392H	M 3.9KOHM, J, 5W
R821	ERG5SJ392H	M 3.9KOHM, J, 5W
R822	ERDS2TJ562	C 5.6KOHM, J,1/4W
R823	ERDS2TJ333	C 33KOHM, J,1/4W
R824	ERG5SJ823H	M 82KOHM, J, 5W
R825	ER050CKF3243	M 324KOHM, F,1/2W
R826	ER0S2CKF3002	M 30KOHM, F,1/4W
R827	ERDS2TJ103	C 10KOHM, J,1/4W
R828	ERQ14AJ471P	F 470 OHM, J,1/4W ⚠
R830	ER0S2CKF1503	M 150KOHM, F,1/4W
R831	ER0S2CKF1152	M11.5KOHM, F,1/4W
R832	ERDS2TJ391	C 390 OHM, J,1/4W
R833	ERX3FJX1R0E	M 1 OHM, J, 3W
R834	ERG3FJX100E	M 10 OHM, 3W
R835	ERDS2TJ103	C 10KOHM, J,1/4W
R836	ERG3FJX220E	M 22 OHM, 3W
R839	ERDS2TJ333	C 33KOHM, J,1/4W
R841	ERQ2CJP150S	F 15 OHM, J, 2W ⚠
R842	ERX3FJX6R8E	M 6.8 OHM, 3W
R843	ERDS2TJ102	C 1KOHM, J,1/4W
R844	ERDS2TJ223	C 22KOHM, J,1/4W
R845	ERDS2TJ103	C 10KOHM, J,1/4W
R846	ERDS2TJ102	C 1KOHM, J,1/4W
R847	ERQ12HKR33	F0.33 OHM, K,1/2W ⚠
R848	ERQ12HKR22	F0.22 OHM, K,1/2W ⚠
R849	ERQ12HKR39	F0.39 OHM, K,1/2W ⚠
R851	ERG1SJ153P	M 15KOHM, J, 1W
R852	ERDS2TJ273	C 27KOHM, J,1/4W
R853	ERDS2TJ103	C 10KOHM, J,1/4W
R854	ERDS2TJ223	C 22KOHM, J,1/4W
R855	ERDS2TJ562	C 5.6KOHM, J,1/4W
R856	ERDS2TJ822	C 8.2KOHM, J,1/4W
R857	ERDS2TJ272	C 2.7KOHM, J,1/4W
R858	ERDS2TJ103	C 10KOHM, J,1/4W
R859	ERDS1FJ103	C 10KOHM, J,1/2W
R862	TSF19401	PROTECTOR ⚠
R864	ERDS2TJ102	C 1KOHM, J,1/4W
R865	ERDS2TJ103	C 10KOHM, J,1/4W
R866	ERDS2TJ103	C 10KOHM, J,1/4W
R867	ERDS2TJ223	C 22KOHM, J,1/4W
R868	ERDS2TJ101	C 100 OHM, J,1/4W
R869	TSF19201	PROTECTOR ⚠
R870	ERC12ZGK335	S 3.3MOHM, K,1/2W
R871	ERF5ZJ121	W 120 OHM, J, 5W
R873	ERG1SJ681P	M 680 OHM, J, 1W
R916	ERJ6GEYJ562	M 5.6KOHM,J,1/10W
R917	ERJ6GEYJ104	M 100KOHM,J,1/10W
R918	ERJ6GEYJ151	M 150 OHM,J,1/10W
R919	ERJ6GEYJ472	M 4.7KOHM,J,1/10W
R920	EVND4AA00B23	CONTROL 2KOHMB

Ref.No.	Part No.	Description
R921	ERJ6GEYJ562	M 5.6KOHM,J,1/10W
R922	ERJ6GEYJ104	M 100KOHM,J,1/10W
R923	ERJ6GEYJ222	M 2.2KOHM,J,1/10W
R924	ERJ6GEYJ822	M 8.2KOHM,J,1/10W
R925	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R927	ERJ6GEYJ393	M 39KOHM,J,1/10W
R933	ERJ6GEYJ393	M 39KOHM,J,1/10W
R938	ERQ14AJ100P	F 10 OHM, J,1/4W ⚠
R940	ERDS2TJ103	C 10KOHM, J,1/4W
R941	ERDS2TJ562	C 5.6KOHM, J,1/4W
R952	ERDS2TJ183	C 18KOHM, J,1/4W
R953	ERDS2TJ222	C 2.2KOHM, J,1/4W
R954	ERDS2TJ182	C 1.8KOHM, J,1/4W
R955	ERDS2TJ121	C 120 OHM, J,1/4W
R956	ERDS2TJ221	C 220 OHM, J,1/4W
R960	ERQ14AJ100P	F 10 OHM, J,1/4W ⚠
R961	ERQ1CJP331S	F 330 OHM, J, 1W ⚠
R962	ERD25FJ390	C 39 OHM, J,1/4W
R963	ERD25FJ390	C 39 OHM, J,1/4W
R964	ERDS2TJ471	C 470 OHM, J,1/4W
R965	ERDS2TJ393	C 39KOHM, J,1/4W
R966	ERDS1FJ471	C 470 OHM, J,1/2W
R967	ERDS2TJ393	C 39KOHM, J,1/4W
R968	ERDS2TJ471	C 470 OHM, J,1/4W
R969	ERD25FJ390	C 39 OHM, J,1/4W
R970	ERDS2TJ2R7	C 2.7 OHM, J,1/4W
R971	ERDS2TJ2R7	C 2.7 OHM, J,1/4W
R972	ERD25FJ390	C 39 OHM, J,1/4W
R973	ERDS1FJ101	C 100 OHM, J,1/2W
R974	ER0S2CKF1002	M 10KOHM, F,1/4W
R987	ERDS2TJ101	C 100 OHM, J,1/4W
R1042	ERD25TJ102	C 1KOHM, J,1/4W
R1044	ER025CKF2201	M 2.2KOHM, F,1/4W
R1045	ER025CKF2201	M 2.2KOHM, F,1/4W
R1046	ER025CKF3301	M 3.3KOHM, F,1/4W
R1047	ER025CKF5101	M 5.1KOHM, F,1/4W
R1048	ER025CKF9101	M 9.1KOHM, F,1/4W
R1049	ER025CKF2202	M 22KOHM, F,1/4W
R1050	ERD25TJ470	C 47 OHM, J,1/4W
R1080	ERD25TJ182	C 1.8KOHM, J,1/4W
R1081	ERD25TJ152	C 1.5KOHM, J,1/4W
R1082	ERD25TJ472	C 4.7KOHM, J,1/4W
R1083	ERD25TJ123	C 12KOHM, J,1/4W
R1084	ERD25TJ821	C 820 OHM, J,1/4W
R1085	ERD25TJ222	C 2.2KOHM, J,1/4W
R1101	ERDS2TJ103	C 10KOHM, J,1/4W
R1102	ERDS2TJ473	C 47KOHM, J,1/4W
R1103	ERDS2TJ102	C 1KOHM, J,1/4W
R1104	ERDS2TJ101	C 100 OHM, J,1/4W
R1105	ERDS2TJ102	C 1KOHM, J,1/4W
R1106	ERDS2TJ101	C 100 OHM, J,1/4W
R1108	ERDS2TJ472	C 4.7KOHM, J,1/4W
R1110	ERDS2TJ332	C 3.3KOHM, J,1/4W
R1112	ERDS2TJ102	C 1KOHM, J,1/4W
R1115	ERDS2TJ103	C 10KOHM, J,1/4W
R1116	ERDS2TJ221	C 220 OHM, J,1/4W

Ref.No.	Part No.	Description
R1117	ERDS2TJ103	C 10KOHM, J,1/4W
R1118	ERDS2TJ221	C 220 OHM, J,1/4W
R1119	ERDS2TJ221	C 220 OHM, J,1/4W
R1120	ERDS2TJ102	C 1KOHM, J,1/4W
R1121	ERDS2TJ102	C 1KOHM, J,1/4W
R1122	ERDS2TJ102	C 1KOHM, J,1/4W
R1123	ERDS2TJ102	C 1KOHM, J,1/4W
R1124	ERDS2TJ333	C 33KOHM, J,1/4W
R1126	ERDS2TJ332	C 3.3KOHM, J,1/4W
R1127	ERDS2TJ332	C 3.3KOHM, J,1/4W
R1128	ERDS2TJ332	C 3.3KOHM, J,1/4W
R1129	ERDS2TJ101	C 100 OHM, J,1/4W
R1132	ERDS2TJ101	C 100 OHM, J,1/4W
R1133	ERDS2TJ101	C 100 OHM, J,1/4W
R1134	ERDS2TJ101	C 100 OHM, J,1/4W
R1135	ERDS2TJ101	C 100 OHM, J,1/4W
R1136	ERDS2TJ101	C 100 OHM, J,1/4W
R1137	ERDS2TJ101	C 100 OHM, J,1/4W
R1149	ERDS2TJ221	C 220 OHM, J,1/4W
R1150	ERDS2TJ183	C 18KOHM, J,1/4W
R1151	ERDS2TJ101	C 100 OHM, J,1/4W
R1152	ERDS2TJ101	C 100 OHM, J,1/4W
R1153	ERDS2TJ101	C 100 OHM, J,1/4W
R1155	ERDS2TJ332	C 3.3KOHM, J,1/4W
R1201	ERDS2TJ102	C 1KOHM, J,1/4W
R1202	ERDS2TJ101	C 100 OHM, J,1/4W
R1203	ERDS2TJ473	C 47KOHM, J,1/4W
R1204	ERDS2TJ103	C 10KOHM, J,1/4W
R1205	ERDS2TJ333	C 33KOHM, J,1/4W
R1208	ERDS2TJ473	C 47KOHM, J,1/4W
R1209	ERDS2TJ333	C 33KOHM, J,1/4W
R1210	ERDS2TJ103	C 10KOHM, J,1/4W
R1211	ERDS2TJ333	C 33KOHM, J,1/4W
R1212	ERDS2TJ473	C 47KOHM, J,1/4W
R1213	ERDS2TJ103	C 10KOHM, J,1/4W
R1214	ERDS2TJ103	C 10KOHM, J,1/4W
R1215	ERDS2TJ103	C 10KOHM, J,1/4W
R1216	ERDS2TJ223	C 22KOHM, J,1/4W
R1217	ERDS2TJ101	C 100 OHM, J,1/4W
R1218	ERDS2TJ101	C 100 OHM, J,1/4W
R1219	ERDS2TJ101	C 100 OHM, J,1/4W
R1221	ERDS2TJ101	C 100 OHM, J,1/4W
R1222	ERDS2TJ102	C 1KOHM, J,1/4W
R1228	ERDS2TJ103	C 10KOHM, J,1/4W
R1229	ERDS2TJ332	C 3.3KOHM, J,1/4W
R1230	ERDS2TJ332	C 3.3KOHM, J,1/4W
R1235	ERDS2TJ103	C 10KOHM, J,1/4W
R1236	ERDS2TJ473	C 47KOHM, J,1/4W
R1239	ERDS2TJ221	C 220 OHM, J,1/4W
R1245	ERDS2TJ472	C 4.7KOHM, J,1/4W
R1259	ERDS2TJ273	C 27KOHM, J,1/4W
R1260	ERDS2TJ103	C 10KOHM, J,1/4W
R1265	ERDS2TJ222	C 2.2KOHM, J,1/4W
R1266	ERDS2TJ101	C 100 OHM, J,1/4W
R1267	ERDS2TJ101	C 100 OHM, J,1/4W
R1268	ERDS2TJ101	C 100 OHM, J,1/4W

TX-24 / 28WG10X

Ref.No.	Part No.	Description
R1276	ERDS2TJ221	C 220 OHM, J,1/4W
R1280	ERDS2TJ332	C 3.3KOHM, J,1/4W
R1281	ERDS2TJ332	C 3.3KOHM, J,1/4W
R1282	ERDS2TJ332	C 3.3KOHM, J,1/4W
R1283	ERDS2TJ332	C 3.3KOHM, J,1/4W
R1285	ERDS2TJ152	C 1.5KOHM, J,1/4W
R1286	ERDS2TJ152	C 1.5KOHM, J,1/4W
R1287	ERDS2TJ152	C 1.5KOHM, J,1/4W
R1292	ERDS2TJ393	C 39KOHM, J,1/4W
R1302	ERDS2TJ103	C 10KOHM, J,1/4W
R1303	ERDS2TJ102	C 1KOHM, J,1/4W
R1312	ERDS2TJ102	C 1KOHM, J,1/4W
R1313	ERDS2TJ100	C 10 OHM, J,1/4W
R1543	ERQ12HJ1R0	F 1 OHM, J,1/2W ⚠
R1544	ERDS2TJ102	C 1KOHM, J,1/4W
R1550	ERDS2TJ223	C 22KOHM, J,1/4W
R1561	ERDS2TJ221	C 220 OHM, J,1/4W
R2004	ERJ6GEYJ123	M 12KOHM,J,1/10W
R2005	ERJ6GEYJ123	M 12KOHM,J,1/10W
R2006	ERJ6GEYJ102	M 1KOHM,J,1/10W
R2007	ERJ6GEY0R00	M 0 OHM,J,1/10W
R2008	ERJ6GEY0R00	M 0 OHM,J,1/10W
R2009	ERJ6GEYJ680	M 68 OHM,J,1/10W
R2010	ERJ6GEYJ431	M 430 OHM,J,1/10W
R2011	ERJ6GEYJ241	M 240 OHM, 1/10W
R2012	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R2013	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R2014	ERJ6GEYJ823	M 82KOHM,J,1/10W
R2015	ERJ6GEY0R00	M 0 OHM,J,1/10W
R2016	ERJ6GEY0R00	M 0 OHM,J,1/10W
R2019	ERJ6GEYJ104	M 100KOHM,J,1/10W
R2020	ERJ6GEYJ150	M 15 OHM,J,1/10W
R2021	ERJ6GEYJ223	M 22KOHM,J,1/10W
R2022	ERJ6GEYJ223	M 22KOHM,J,1/10W
R2023	ERJ6GEYJ392	M 3.9KOHM,J,1/10W
R2025	ERJ6GEYJ224	M 220KOHM,J,1/10W
R2032	ERJ6GEYJ681	M 680 OHM,J,1/10W
R2039	ERJ6GEYJ182	M 1.8KOHM,J,1/10W
R2042	ERJ6GEYJ513	M 51KOHM,J,1/10W
R2045	ERJ6GEYJ513	M 51KOHM,J,1/10W
R2047	ERJ6GEYJ681	M 680 OHM,J,1/10W
R2052	ERJ6GEYJ105	M 1MOHM,J,1/10W
R2053	ERJ6GEYJ222	M 2.2KOHM,J,1/10W
R2054	ERJ6GEYJ104	M 100KOHM,J,1/10W
R2055	ERJ6GEYJ273	M 27KOHM,J,1/10W
R2056	ERJ6GEYJ104	M 100KOHM,J,1/10W
R2057	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2058	ERJ6GEYJ223	M 22KOHM,J,1/10W
R2060	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2061	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2062	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2064	ERJ6GEYJ272	M 2.7KOHM,J,1/10W
R2066	ERJ6GEYJ681	M 680 OHM,J,1/10W
R2067	ERJ6GEYJ681	M 680 OHM,J,1/10W
R2070	ERJ6GEYJ563	M 56KOHM,J,1/10W
R2071	ERJ6GEYJ103	M 10KOHM,J,1/10W

Ref.No.	Part No.	Description
R2072	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2073	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2074	ERJ6GEYJ562	M 5.6KOHM,J,1/10W
R2076	ERJ6GEYJ394	M 390KOHM,J,1/10W
R2077	ERJ6GEYJ563	M 56KOHM,J,1/10W
R2078	ERJ6GEYJ394	M 390KOHM,J,1/10W
R2079	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2080	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2081	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2082	ERJ6GEYJ562	M 5.6KOHM,J,1/10W
R2085	ERJ6GEYJ101	M 100 OHM,J,1/10W
R2086	ERJ6GEYJ101	M 100 OHM,J,1/10W
R2090	ERJ6GEYJ182	M 1.8KOHM,J,1/10W
R2091	ERJ6GEYJ223	M 22KOHM,J,1/10W
R2092	ERJ6GEYJ223	M 22KOHM,J,1/10W
R2093	ERJ6GEYJ222	M 2.2KOHM,J,1/10W
R2094	ERJ6GEYJ473	M 47KOHM,J,1/10W
R2095	ERJ6GEYJ473	M 47KOHM,J,1/10W
R2098	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2099	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2100	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2101	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2102	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2103	ERJ6GEYJ101	M 100 OHM,J,1/10W
R2104	ERJ6GEYJ223	M 22KOHM,J,1/10W
R2105	ERJ6GEYJ223	M 22KOHM,J,1/10W
R2106	ERJ6GEYJ222	M 2.2KOHM,J,1/10W
R2107	ERJ6GEYJ473	M 47KOHM,J,1/10W
R2109	ERJ6GEYJ223	M 22KOHM,J,1/10W
R2110	ERJ6GEYJ223	M 22KOHM,J,1/10W
R2111	ERJ6GEYJ223	M 22KOHM,J,1/10W
R2112	ERJ6GEYJ223	M 22KOHM,J,1/10W
R2127	ERJ6GEYJ154	M 150KOHM,J,1/10W
R2128	ERJ6GEYJ473	M 47KOHM,J,1/10W
R2129	ERJ6GEYJ222	M 2.2KOHM,J,1/10W
R2130	ERJ6GEYJ392	M 3.9KOHM,J,1/10W
R2131	ERJ6GEYJ331	M 330 OHM,J,1/10W
R2134	ERJ6GEYJ471	M 470 OHM,J,1/10W
R2135	ERJ6GEYJ471	M 470 OHM,J,1/10W
R2136	ERQ14AJ330P	F 33 OHM, J,1/4W ⚠
R2201	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2202	ERJ6GEYJ333	M 33KOHM,J,1/10W
R2203	ERJ6GEYJ223	M 22KOHM,J,1/10W
R2204	EVND8AA03B54	CONTROL 50KOHMB
R2205	ERJ6GEYJ184	M 180KOHM,J,1/10W
R2206	ERJ6GEYJ274	M 270KOHM,J,1/10W
R2207	ERJ6GEYJ101	M 100 OHM,J,1/10W
R2208	ERJ6GEYJ101	M 100 OHM,J,1/10W
R2211	ERJ6GEY0R00	M 0 OHM,J,1/10W
R2212	ERJ6GEY0R00	M 0 OHM,J,1/10W
R2312	ERDS2TJ181	C 180 OHM, J,1/4W
R2313	ERDS2TJ181	C 180 OHM, J,1/4W
R2322	ERDS2TJ682	C 6.8KOHM, J,1/4W (ONLY FOR TX-28WG10X)
R2322	ERDS2TJ562	C 5.6KOHM, J,1/4W (ONLY FOR TX-24WG10X)

Ref.No.	Part No.	Description
R2324	ERDS2TJ682	C 6.8KOHM, J,1/4W (ONLY FOR TX-28WG10X)
R2324	ERDS2TJ562	C 5.6KOHM, J,1/4W (ONLY FOR TX-24WG10X)
R2325	ERD25FJ2R2	C 2.2 OHM, J,1/4W
R2326	ERD25FJ2R2	C 2.2 OHM, J,1/4W
R2327	ERDS2TJ101	C 100 OHM, J,1/4W
R2328	ERDS2TJ272	C 2.7KOHM, J,1/4W
R2374	ERDS2TJ103	C 10KOHM, J,1/4W
R2375	ERDS2TJ222	C 2.2KOHM, J,1/4W
R2376	ERDS2TJ102	C 1KOHM, J,1/4W
R2377	ERDS2TJ102	C 1KOHM, J,1/4W
R2381	ERDS1FJ471	C 470 OHM, J,1/2W
R2382	ERDS1FJ471	C 470 OHM, J,1/2W
R2383	ERDS1FJ750	C 75 OHM J, 1/2W
R2384	ERDS1FJ561	C 560 OHM, J,1/2W
R2385	ERDS1FJ561	C 560 OHM, J,1/2W
R2386	ERDS1FJ222	C 2.2KOHM, J,1/2W
R2387	ERDS1FJ750	C 75 OHM J, 1/2W
R2388	ERD25TJ103	C 10KOHM, J,1/4W
R2390	ERDS2TJ104	C 100KOHM, J,1/4W (ONLY FOR TX-28WG10X)
R2390	ERDS2TJ683	C 68KOHM, J,1/4W (ONLY FOR TX-24WG10X)
R2391	ERDS2TJ183	C 18KOHM, J,1/4W
R2392	ERD25TJ223	C 22KOHM, J,1/4W (ONLY FOR TX-28WG10X)
R2393	ERD25TJ223	C 22KOHM, J,1/4W (ONLY FOR TX-28WG10X)
R2394	ERD25TJ223	C 22KOHM, J,1/4W (ONLY FOR TX-24WG10X)
R2395	ERD25TJ223	C 22KOHM, J,1/4W (ONLY FOR TX-24WG10X)
R2401	ERJ6GEYJ393	M 39KOHM,J,1/10W
R2402	ERJ6GEYJ393	M 39KOHM,J,1/10W
R2403	ERJ6GEYJ824	M 820KOHM,J,1/10W
R2404	ERJ6GEYJ105	M 1MOHM,J,1/10W
R2405	ERJ6GEYJ560	M 56 OHM,J,1/10W
R2406	ERJ6GEYJ560	M 56 OHM,J,1/10W
R2407	ERJ6GEYJ101	M 100 OHM,J,1/10W
R2408	ERJ6GEYJ104	M 100KOHM,J,1/10W
R2409	ERJ6GEYJ104	M 100KOHM,J,1/10W
R2410	ERJ6GEYJ333	M 33KOHM,J,1/10W
R2411	ERJ6GEYJ512	M 5.1KOHM,J,1/10W
R2412	ERJ6GEYJ561	M 560 OHM,J,1/10W
R2413	ERJ6GEYJ563	M 56KOHM,J,1/10W
R2414	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2415	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2416	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2417	ERJ6GEYJ333	M 33KOHM,J,1/10W
R2418	ERJ6GEYJ102	M 1KOHM,J,1/10W
R2419	ERJ6GEYJ392	M 3.9KOHM,J,1/10W
R2420	ERJ6GEYJ153	M 15KOHM,J,1/10W
R2421	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2422	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2423	ERJ6GEYJ512	M 5.1KOHM,J,1/10W

Ref.No.	Part No.	Description
R2424	ERJ6GEYJ182	M 1.8KOHM,J,1/10W
R2425	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2426	ERJ6GEYJ182	M 1.8KOHM,J,1/10W
R2427	ERJ6GEYJ472	M 4.7KOHM,J,1/10W
R2430	ERJ6GEYJ154	M 150KOHM,J,1/10W
R2431	ERJ6GEYJ102	M 1KOHM,J,1/10W
R2432	ERJ6GEYJ563	M 56KOHM,J,1/10W
R2434	ERG2SJ181H	M 180 OHM, J, 2W
R2437	ERJ6GEYJ222	M 2.2KOHM,J,1/10W
R2438	ERJ6GEYJ104	M 100KOHM,J,1/10W
R2439	ERJ6GEYJ822	M 8.2KOHM,J,1/10W
R2440	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2445	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2446	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2447	ERJ6GEYJ102	M 1KOHM,J,1/10W
R2448	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2449	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2450	ERJ6GEYJ154	M 150KOHM,J,1/10W
R2451	ERJ6GEYJ154	M 150KOHM,J,1/10W
R2452	ERJ6GEYJ104	M 100KOHM,J,1/10W
R2453	ERJ6GEYJ104	M 100KOHM,J,1/10W
R2454	ERJ6GEYJ562	M 5.6KOHM,J,1/10W
R2455	ERJ6GEYJ223	M 22KOHM,J,1/10W
R2457	ERJ6GEYJ823	M 82KOHM,J,1/10W
R2458	ERJ6GEYJ333	M 33KOHM,J,1/10W
R2459	ERJ6GEYJ104	M 100KOHM,J,1/10W
R2460	ERJ6GEYJ154	M 150KOHM,J,1/10W
R2461	ERJ6GEYJ154	M 150KOHM,J,1/10W
R2462	ERJ6GEYJ104	M 100KOHM,J,1/10W
R2463	ERJ6GEYJ104	M 100KOHM,J,1/10W
R2464	ERJ6GEYJ562	M 5.6KOHM,J,1/10W
R2465	ERJ6GEYJ102	M 1KOHM,J,1/10W
R2466	ERJ6GEYJ104	M 100KOHM,J,1/10W
R2467	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2468	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2469	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2470	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2471	ERJ6GEYJ154	M 150KOHM,J,1/10W
R2472	ERJ6GEYJ154	M 150KOHM,J,1/10W
R2473	ERJ6GEYJ154	M 150KOHM,J,1/10W
R2474	ERJ6GEYJ154	M 150KOHM,J,1/10W
R2475	ERJ6GEYJ473	M 47KOHM,J,1/10W
R2476	ERJ6GEYJ473	M 47KOHM,J,1/10W
R2477	ERJ6GEYJ102	M 1KOHM,J,1/10W
R2478	ERJ6GEYJ102	M 1KOHM,J,1/10W
R2479	ERJ6GEYJ103	M 10KOHM,J,1/10W
R2480	ERJ6GEYJ473	M 47KOHM,J,1/10W
R2481	ERJ6GEYJ272	M 2.7KOHM,J,1/10W
R2482	ERJ6GEYJ154	M 150KOHM,J,1/10W
R2483	ERJ6GEY0R00	M 0 OHM,J,1/10W
R3001	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3002	ERJ6GEYJ184	M 180KOHM,J,1/10W
R3003	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3004	ERJ6GEYJ184	M 180KOHM,J,1/10W
R3005	ERJ6GEYJ750	M 75 OHM,J,1/10W
R3006	ERJ6GEYJ750	M 75 OHM,J,1/10W

TX-24 / 28WG10X

Ref.No.	Part No.	Description
R3007	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3008	ERJ6GEYJ222	M 2.2KOHM,J,1/10W
R3009	ERJ6GEYJ331	M 330 OHM,J,1/10W
R3010	ERJ6GEYJ750	M 75 OHM,J,1/10W
R3011	ERJ6GEYJ331	M 330 OHM,J,1/10W
R3012	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3013	ERJ6GEYJ184	M 180KOHM,J,1/10W
R3014	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3015	ERJ6GEYJ184	M 180KOHM,J,1/10W
R3016	ERJ6GEYJ331	M 330 OHM,J,1/10W
R3017	ERJ6GEYJ220	M 22 OHM,J,1/10W
R3018	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3019	ERJ6GEYJ222	M 2.2KOHM,J,1/10W
R3020	ERJ6GEYJ750	M 75 OHM,J,1/10W
R3021	ERJ6GEYJ331	M 330 OHM,J,1/10W
R3022	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3023	ERJ6GEYJ184	M 180KOHM,J,1/10W
R3024	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3025	ERJ6GEYJ184	M 180KOHM,J,1/10W
R3026	ERJ6GEYJ101	M 100 OHM,J,1/10W
R3027	ERJ6GEYJ101	M 100 OHM,J,1/10W
R3028	ERJ6GEYJ331	M 330 OHM,J,1/10W
R3029	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3030	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3031	ERJ6GEYJ331	M 330 OHM,J,1/10W
R3032	ERJ6GEYJ392	M 3.9KOHM,J,1/10W
R3033	ERJ6GEYJ331	M 330 OHM,J,1/10W
R3034	ERJ6GEYJ331	M 330 OHM,J,1/10W
R3035	ERJ6GEYJ331	M 330 OHM,J,1/10W
R3036	ERJ6GEYJ331	M 330 OHM,J,1/10W
R3037	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3038	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3039	ERJ6GEYJ223	M 22KOHM,J,1/10W
R3040	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3041	ERJ6GEYJ333	M 33KOHM,J,1/10W
R3042	ERJ6GEYJ223	M 22KOHM,J,1/10W
R3043	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3045	ERJ6GEYJ471	M 470 OHM,J,1/10W
R3047	ERJ6GEYJ471	M 470 OHM,J,1/10W
R3048	ERJ6GEYJ471	M 470 OHM,J,1/10W
R3049	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3050	ERJ6GEYJ101	M 100 OHM,J,1/10W
R3051	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3052	ERJ6GEYJ101	M 100 OHM,J,1/10W
R3053	ERJ6GEYJ123	M 12KOHM,J,1/10W
R3056	ERJ6GEYJ104	M 100KOHM,J,1/10W
R3057	ERJ6GEYJ101	M 100 OHM,J,1/10W
R3058	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3063	ERJ6GEYJ104	M 100KOHM,J,1/10W
R3064	ERJ6GEYJ101	M 100 OHM,J,1/10W
R3065	ERJ6GEYJ562	M 5.6KOHM,J,1/10W
R3069	ERQ14AJ100P	F 10 OHM, J,1/4W ⚠
R3070	ERJ6GEYJ181	M 180 OHM,J,1/10W
R3071	ERJ6GEYJ680	M 68 OHM,J,1/10W
R3072	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3074	ERJ6GEYJ393	M 39KOHM,J,1/10W

Ref.No.	Part No.	Description
R3076	ERJ6GEYJ273	M 27KOHM,J,1/10W
R3078	ERJ6GEYJ561	M 560 OHM,J,1/10W
R3079	ERJ6GEYJ221	M 220 OHM,J,1/10W
R3083	ERJ6GEYJ682	M 6.8KOHM,J,1/10W
R3084	ERJ6GEYJ223	M 22KOHM,J,1/10W
R3086	ERJ6GEYJ223	M 22KOHM,J,1/10W
R3088	ERJ6GEYJ683	M 68KOHM,J,1/10W
R3090	ERJ6GEYJ223	M 22KOHM,J,1/10W
R3094	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3096	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3097	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3098	ERJ6GEYJ221	M 220 OHM,J,1/10W
R3110	ERJ6GEYJ221	M 220 OHM,J,1/10W
R3111	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3118	ERJ6GEYJ333	M 33KOHM,J,1/10W
R3119	ERJ6GEYJ334	M 330KOHM,J,1/10W
R3130	ERJ6GEYJ222	M 2.2KOHM,J,1/10W
R3137	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3138	ERJ6ENF6802	M 68KOHM, 1/10W
R3139	ERJ6GEYJ682	M 6.8KOHM,J,1/10W
R3140	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3141	ERJ6ENF3241	M3.24KOHM, 1/10W
R3142	ERJ6GEYJ472	M 4.7KOHM,J,1/10W
R3143	ERJ6ENF4702	M 47KOHM, 1/10W
R3144	ERJ6ENF4021	M4.02KOHM, 1/10W
R3145	ERJ6GEYJ334	M 330KOHM,J,1/10W
R3146	ERJ6GEYJ563	M 56KOHM,J,1/10W
R3147	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3148	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3150	ERJ6GEYJ271	M 270 OHM,J,1/10W
R3151	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3152	ERJ6GEYJ561	M 560 OHM,J,1/10W
R3153	ERJ6GEYJ333	M 33KOHM,J,1/10W
R3154	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3155	ERJ6GEYJ681	M 680 OHM,J,1/10W
R3156	ERJ6GEYJ331	M 330 OHM,J,1/10W
R3158	ERJ6GEYJ391	M 390 OHM,J,1/10W
R3159	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3160	ERJ6GEYJ471	M 470 OHM,J,1/10W
R3161	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3162	ERJ6GEYJ333	M 33KOHM,J,1/10W
R3163	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3175	ERJ6GEYJ331	M 330 OHM,J,1/10W
R3180	ERJ6GEYJ392	M 3.9KOHM,J,1/10W
R3182	ERJ6GEYJ223	M 22KOHM,J,1/10W
R3183	ERJ6GEYJ472	M 4.7KOHM,J,1/10W
R3184	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3185	ERJ6GEYJ223	M 22KOHM,J,1/10W
R3186	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3187	ERJ6GEYJ273	M 27KOHM,J,1/10W
R3189	ERJ6GEYJ823	M 82KOHM,J,1/10W
R3266	ERJ6GEYJ681	M 680 OHM,J,1/10W
R3267	ERJ6GEYJ391	M 390 OHM,J,1/10W
R3268	ERJ6GEYJ152	M 1.5KOHM,J,1/10W
R3272	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3273	ERJ6GEYJ151	M 150 OHM,J,1/10W

Ref.No.	Part No.	Description
R3274	ERJ6GEYJ123	M 12KOHM,J,1/10W
R3275	ERJ6GEYJ333	M 33KOHM,J,1/10W
R3276	ERJ6GEYJ223	M 22KOHM,J,1/10W
R3277	ERJ6GEYJ393	M 39KOHM,J,1/10W
R3278	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3279	ERJ6GEYJ393	M 39KOHM,J,1/10W
R3280	ERJ6GEYJ474	M 470KOHM,J,1/10W
R3281	ERJ6GEYJ472	M 4.7KOHM,J,1/10W
R3282	ERJ6ENF2871	M2.87KOHM, 1/10W
R3283	ERJ6GEYJ512	M 5.1KOHM,J,1/10W
R3284	ERJ6ENF2201	M 2.2KOHM, 1/10W
R3285	ERJ6ENF7501	M 7.5KOHM, 1/10W
R3286	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3301	ERJ6GEYJ682	M 6.8KOHM,J,1/10W
R3303	ERJ6GEYJ153	M 15KOHM,J,1/10W
R3304	ERJ6GEYJ331	M 330 OHM,J,1/10W
R3305	ERJ6GEYJ561	M 560 OHM,J,1/10W
R3306	ERJ6GEYJ471	M 470 OHM,J,1/10W
R3307	ERJ6GEYJ393	M 39KOHM,J,1/10W
R3351	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R3352	ERJ6GEYJ393	M 39KOHM,J,1/10W
R3361	ERJ6GEYJ822	M 8.2KOHM,J,1/10W
R3362	ERJ6GEYJ392	M 3.9KOHM,J,1/10W
R3363	ERJ6GEYJ331	M 330 OHM,J,1/10W
R3367	ERJ6GEYJ391	M 390 OHM,J,1/10W
R3501	ERJ8GCYJ221	M 220 OHM, J,1/8W
R3502	ERJ6GEYJ392	M 3.9KOHM,J,1/10W
R3505	ERJ8GCYJ102	M 1KOHM, J,1/8W
R3506	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3507	ERJ8GCYJ102	M 1KOHM, J,1/8W
R3508	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3509	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3510	ERJ8GCYJ102	M 1KOHM, J,1/8W
R3511	ERJ8GCYJ102	M 1KOHM, J,1/8W
R3513	ERJ6GEYJ223	M 22KOHM,J,1/10W
R3514	EVND1AA00B24	CONTROL 20KOHMB
R3515	ERJ6GEYJ392	M 3.9KOHM,J,1/10W
R3522	ERJ6GEYJ273	M 27KOHM,J,1/10W
R3523	ERJ6GEYJ101	M 100 OHM,J,1/10W
R3525	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R3528	ERJ8GCYJ561	M 560 OHM, J,1/8W
R3529	ERJ8GCYJ561	M 560 OHM, J,1/8W
R3530	ERQ14AJ100P	F 10 OHM, J,1/4W
R3532	ERJ6GEYJ823	M 82KOHM,J,1/10W
R3533	ERJ6GEYJ750	M 75 OHM,J,1/10W
R3534	ERJ6GEYJ750	M 75 OHM,J,1/10W
R3535	ERJ6GEYJ750	M 75 OHM,J,1/10W
R3536	ERJ6GEYJ750	M 75 OHM,J,1/10W
R3539	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R3541	ERJ6GEYJ101	M 100 OHM,J,1/10W
R3542	ERJ6GEYJ101	M 100 OHM,J,1/10W
R3543	ERJ6GEYJ101	M 100 OHM,J,1/10W
R3544	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3545	ERJ6GEYJ101	M 100 OHM,J,1/10W
R3546	ERJ6GEYJ101	M 100 OHM,J,1/10W
R3548	ERJ6GEYJ103	M 10KOHM,J,1/10W

Ref.No.	Part No.	Description
R3551	ERJ6GEYJ101	M 100 OHM,J,1/10W
R3553	ERJ6GEYJ105	M 1MOHM,J,1/10W
R3554	ERJ6GEYJ101	M 100 OHM,J,1/10W
R3557	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3559	ERJ8GCYJ102	M 1KOHM, J,1/8W
R3560	ERJ6GEYJ561	M 560 OHM,J,1/10W
R3561	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3563	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3567	ERJ6GEYJ472	M 4.7KOHM,J,1/10W
R3568	ERJ6GEYJ822	M 8.2KOHM,J,1/10W
R3569	ERJ6GEYJ153	M 15KOHM,J,1/10W
R3570	ERJ6GEYJ223	M 22KOHM,J,1/10W
R3571	ERJ6GEYJ101	M 100 OHM,J,1/10W
R3572	ERJ6GEYJ101	M 100 OHM,J,1/10W
R3573	ERJ8GCYJ221	M 220 OHM, J,1/8W
R3574	ERJ8GCYJ561	M 560 OHM, J,1/8W
R3580	ERJ6GEYJ101	M 100 OHM,J,1/10W
R3584	ERJ6GEYJ473	M 47KOHM,J,1/10W
R3585	ERJ6GEYJ473	M 47KOHM,J,1/10W
R3586	ERJ6GEYJ472	M 4.7KOHM,J,1/10W
R3588	ERJ6GEYJ223	M 22KOHM,J,1/10W
R3593	ERJ6GEYJ222	M 2.2KOHM,J,1/10W
R3594	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R3595	ERJ6GEYJ242	M 2.4KOHM,J,1/10W
R3596	ERJ6GEYJ222	M 2.2KOHM,J,1/10W
R3597	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3598	ERJ6GEYJ822	M 8.2KOHM,J,1/10W
R3599	ERJ6GEYJ101	M 100 OHM,J,1/10W
R3602	ERJ6GEYJ223	M 22KOHM,J,1/10W
R3604	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3605	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3606	ERJ6GEYJ392	M 3.9KOHM,J,1/10W
R3607	ERJ6GEYJ561	M 560 OHM,J,1/10W
R3608	ERJ6GEYJ681	M 680 OHM,J,1/10W
R3609	ERJ6ENF1201	M 1.2KOHM, 1/10W
R3610	ERJ6GEYJ123	M 12KOHM,J,1/10W
R3611	ERJ6GEYJ391	M 390 OHM,J,1/10W
R3612	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R3613	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R3614	ERJ6GEYJ152	M 1.5KOHM,J,1/10W
R3615	ERJ6GEYJ222	M 2.2KOHM,J,1/10W
R3616	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3617	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3618	ERJ6GEYJ392	M 3.9KOHM,J,1/10W
R3619	ERJ6ENF1500	M 150 OHM, 1/10W
R3620	ERJ6ENF1303	M 130KOHM, 1/10W
R3621	ERJ6ENF1303	M 130KOHM, 1/10W
R3622	ERJ6ENF2002	M 20KOHM, 1/10W
R3623	ERJ6ENF4992	M49.9KOHM, 1/10W
R3624	ERJ6ENF1273	M 127KOHM, 1/10W
R3625	ERJ6ENF4992	M49.9KOHM, 1/10W
R3626	ERJ6ENF1273	M 127KOHM, 1/10W
R3627	ERJ6ENF6652	M66.5KOHM, 1/10W
R3630	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3631	ERJ6ENF4702	M 47KOHM, 1/10W
R3632	ERJ6ENF3902	M 39KOHM, 1/10W

Ref.No.	Part No.	Description
R3633	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R3634	ERJ6GEYJ472	M 4.7KOHM,J,1/10W
R3635	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3636	ERJ6ENF3902	M 39KOHM, 1/10W
R3637	ERJ6ENF3302	M 33KOHM, 1/10W
R3638	ERJ6GEYJ105	M 1MOHM,J,1/10W
R3639	ERJ6ENF5603	M 560KOHM, 1/10W
R3640	ERJ6GEYJ273	M 27KOHM,J,1/10W
R3641	ERJ6ENF4702	M 47KOHM, 1/10W
R3642	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3643	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3644	ERJ6ENF1002	M 10KOHM, 1/10W
R3645	ERJ6GEYJ333	M 33KOHM,J,1/10W
R3646	ERJ6ENF2001	M 2KOHM, 1/10W
R3647	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R3648	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3649	ERJ6ENF4701	M 4.7KOHM, 1/10W
R3650	ERJ6GEYJ564	M 560KOHM,J,1/10W
R3651	ERJ6ENF1002	M 10KOHM, 1/10W
R3652	ERJ6ENF1002	M 10KOHM, 1/10W
R3653	ERJ6ENF1001	M 1KOHM, 1/10W
R3654	ERJ6ENF1001	M 1KOHM, 1/10W
R3655	ERJ6ENF2001	M 2KOHM, 1/10W
R3656	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3657	ERJ6ENF3001	M 3KOHM, 1/10W
R3658	ERJ6ENF3480	M 348 OHM, 1/10W
R3659	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3660	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3661	ERJ6GEYJ101	M 100 OHM,J,1/10W
R3665	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3666	ERJ6GEYJ105	M 1MOHM,J,1/10W
R3667	ERJ6GEYJ563	M 56KOHM,J,1/10W
R3668	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3669	ERJ6GEYJ271	M 270 OHM,J,1/10W
R3670	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R3671	ERJ6GEYJ331	M 330 OHM,J,1/10W
R3672	ERJ6GEYJ223	M 22KOHM,J,1/10W
R3673	ERJ6GEYJ333	M 33KOHM,J,1/10W
R3678	ERD25TC0	C 0 OHM, 1/4W
R3679	ERD25TC0	C 0 OHM, 1/4W
R3681	ERD25TC0	C 0 OHM, 1/4W
R3682	ERJ6GEYJ683	M 68KOHM,J,1/10W
R3683	ERJ6GEYJ563	M 56KOHM,J,1/10W
R3685	ERJ6GEYJ132	M 1.3KOHM,J,1/10W
R3686	ERJ6GEYJ362	M 3.6KOHM,J,1/10W
R3693	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3694	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R3697	ERJ6ENF2002	M 20KOHM, 1/10W
R3698	ERJ6GEYJ302	M 3KOHM,J,1/10W
R3699	ERJ6GEYJ182	M 1.8KOHM,J,1/10W
R3700	ERJ6ENF1002	M 10KOHM, 1/10W
R3701	ERJ6GEYJ224	M 220KOHM,J,1/10W
R3702	ERJ6GEYJ473	M 47KOHM,J,1/10W
R3703	ERJ6GEYJ473	M 47KOHM,J,1/10W
R3704	ERJ6ENF3900	M 390 OHM, 1/10W
R3705	ERJ6ENF1401	M 1.4KOHM, 1/10W

Ref.No.	Part No.	Description
R3706	ERJ6ENF2703	M 270KOHM, 1/10W
R3707	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3708	ERJ6GEYJ333	M 33KOHM,J,1/10W
R3709	ERJ6GEYJ333	M 33KOHM,J,1/10W
R3710	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R3711	ERJ6GEYJ223	M 22KOHM,J,1/10W
R3712	ERJ6GEYJ105	M 1MOHM,J,1/10W
R3713	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3715	ERJ6GEYJ102	M 1KOHM,J,1/10W
R3716	ERJ6ENF4701	M 4.7KOHM, 1/10W
R3717	ERJ6ENF5110	M 511 OHM, 1/10W
R3718	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3719	ERJ6GEYJ103	M 10KOHM,J,1/10W
R3723	ERJ6GEYJ104	M 100KOHM,J,1/10W
R5501	ERJ6GEYJ103	M 10KOHM,J,1/10W
R5503	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R5504	ERJ6GEYJ221	M 220 OHM,J,1/10W
R5505	ERJ6GEYJ151	M 150 OHM,J,1/10W
R5506	ERJ6GEYJ152	M 1.5KOHM,J,1/10W
R5507	ERJ6GEYJ473	M 47KOHM,J,1/10W
R5508	ERJ6GEYJ272	M 2.7KOHM,J,1/10W
R5509	ERJ6GEYJ151	M 150 OHM,J,1/10W
R5510	ERJ6GEYJ152	M 1.5KOHM,J,1/10W
R5511	ERJ6GEYJ151	M 150 OHM,J,1/10W
R5512	ERJ6GEYJ822	M 8.2KOHM,J,1/10W
R5513	ERJ6GEYJ122	M 1.2KOHM,J,1/10W
R5514	ERJ6GEYJ821	M 820 OHM,J,1/10W
R5515	ERJ6GEYJ471	M 470 OHM,J,1/10W
R5516	ERJ6GEYJ151	M 150 OHM,J,1/10W
R5517	ERJ6GEYJ471	M 470 OHM,J,1/10W
R5518	ERJ6GEYJ102	M 1KOHM,J,1/10W
R5519	ERJ6GEYJ272	M 2.7KOHM,J,1/10W
R5520	ERJ6GEYJ102	M 1KOHM,J,1/10W
R5521	ERJ6GEYJ201	M 200 OHM,J,1/10W
R5522	ERJ6GEYJ562	M 5.6KOHM,J,1/10W
R5523	ERJ6GEYJ682	M 6.8KOHM,J,1/10W
R5524	ERJ6GEYJ152	M 1.5KOHM,J,1/10W
R5525	ERJ6GEYJ201	M 200 OHM,J,1/10W
R5526	ERJ6GEYJ821	M 820 OHM,J,1/10W
R5527	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R5528	ERJ6GEYJ331	M 330 OHM,J,1/10W
R5529	ERJ6GEYJ102	M 1KOHM,J,1/10W
R5530	ERJ6GEYJ332	M 3.3KOHM,J,1/10W
R5531	ERJ6GEYJ103	M 10KOHM,J,1/10W
R5532	ERJ6GEYJ471	M 470 OHM,J,1/10W
R5533	ERJ6GEYJ361	M 360 OHM,J,1/10W
R5534	ERJ6GEYJ102	M 1KOHM,J,1/10W
R5535	ERJ6GEYJ683	M 68KOHM,J,1/10W
R5536	ERJ6GEYJ223	M 22KOHM,J,1/10W
R5537	ERJ6GEYJ102	M 1KOHM,J,1/10W
R5538	ERJ6GEYJ222	M 2.2KOHM,J,1/10W
R5539	ERJ6GEYJ821	M 820 OHM,J,1/10W
R5540	ERJ6GEYJ822	M 8.2KOHM,J,1/10W
R5541	ERJ6GEY0R00	M 0 OHM,J,1/10W
R5542	ERJ6GEYJ102	M 1KOHM,J,1/10W
R5543	ERJ6GEYJ221	M 220 OHM,J,1/10W

Ref.No.	Part No.	Description
R5544	ERJ6GEYJ561	M 560 OHM,J,1/10W
R5545	ERJ6GEYJ101	M 100 OHM,J,1/10W
R5546	ERJ6GEYJ103	M 10KOHM,J,1/10W
R5547	ERJ6GEYJ123	M 12KOHM,J,1/10W
R5549	ERJ6GEYJ102	M 1KOHM,J,1/10W
R5550	ERJ6GEYJ221	M 220 OHM,J,1/10W
R5551	ERJ6GEYJ221	M 220 OHM,J,1/10W
R5552	ERJ6GEYJ221	M 220 OHM,J,1/10W
R5553	ERJ6GEYJ151	M 150 OHM,J,1/10W
R5554	ERJ6GEYJ102	M 1KOHM,J,1/10W
R5555	ERJ6GEYJ102	M 1KOHM,J,1/10W
R5556	ERJ6GEYJ272	M 2.7KOHM,J,1/10W
R5557	ERJ6GEYJ221	M 220 OHM,J,1/10W
R5558	ERJ6GEYJ273	M 27KOHM,J,1/10W
R5559	ERJ6GEYJ472	M 4.7KOHM,J,1/10W
R5564	ERJ6GEYJ223	M 22KOHM,J,1/10W
R5565	ERJ6GEYJ223	M 22KOHM,J,1/10W
R5566	ERJ6GEYJ223	M 22KOHM,J,1/10W
R5568	ERJ6GEYJ272	M 2.7KOHM,J,1/10W
R5569	ERJ6GEYJ102	M 1KOHM,J,1/10W
R5571	ERJ6GEYJ102	M 1KOHM,J,1/10W
R5574	ERJ6GEYJ102	M 1KOHM,J,1/10W
R5575	ERJ6GEYJ102	M 1KOHM,J,1/10W
R5576	ERJ6GEYJ102	M 1KOHM,J,1/10W
R5577	ERJ6GEYJ223	M 22KOHM,J,1/10W
R5578	ERJ6GEYJ223	M 22KOHM,J,1/10W
R5579	ERJ6GEYJ103	M 10KOHM,J,1/10W
R5580	ERJ6GEYJ103	M 10KOHM,J,1/10W
R5581	ERJ6GEYJ103	M 10KOHM,J,1/10W
R5582	ERJ6GEYJ471	M 470 OHM,J,1/10W
R5583	ERJ6GEYJ392	M 3.9KOHM,J,1/10W
R5584	ERJ6GEYJ102	M 1KOHM,J,1/10W
R5585	ERJ6GEYJ473	M 47KOHM,J,1/10W
R5586	ERJ6GEYJ561	M 560 OHM,J,1/10W
R5588	ERJ6GEYJ102	M 1KOHM,J,1/10W
R5590	ERJ6GEYJ223	M 22KOHM,J,1/10W
R5591	ERJ6GEYJ473	M 47KOHM,J,1/10W
R5592	ERJ6GEYJ103	M 10KOHM,J,1/10W
R5593	ERJ6GEYJ223	M 22KOHM,J,1/10W
R5594	ERJ6GEYJ473	M 47KOHM,J,1/10W
R5595	ERJ6GEYJ103	M 10KOHM,J,1/10W
R5596	ERJ6GEYJ473	M 47KOHM,J,1/10W
R5597	ERJ6GEYJ103	M 10KOHM,J,1/10W
R5598	ERJ6GEYJ103	M 10KOHM,J,1/10W
R5599	ERJ6GEYJ103	M 10KOHM,J,1/10W
R5601	ERJ6GEYJ473	M 47KOHM,J,1/10W
R5602	ERJ6GEYJ103	M 10KOHM,J,1/10W
R5604	ERJ6GEYJ102	M 1KOHM,J,1/10W
R5605	ERJ6GEYJ471	M 470 OHM,J,1/10W
R5606	ERJ6GEYJ103	M 10KOHM,J,1/10W
R5607	ERJ6GEYJ683	M 68KOHM,J,1/10W
R5608	ERJ6GEYJ563	M 56KOHM,J,1/10W
R5609	ERJ6GEYJ101	M 100 OHM,J,1/10W
R5610	ERJ6GEYJ101	M 100 OHM,J,1/10W
R5611	ERJ6GEYJ101	M 100 OHM,J,1/10W
R5612	ERJ6GEYJ223	M 22KOHM,J,1/10W

Ref.No.	Part No.	Description
R5614	ERJ6GEYJ223	M 22KOHM,J,1/10W
R5615	ERJ6GEYJ103	M 10KOHM,J,1/10W
R5616	ERJ6GEYJ333	M 33KOHM,J,1/10W
R5621	ERJ6GEYJ101	M 100 OHM,J,1/10W
R5622	ERJ6GEYJ102	M 1KOHM,J,1/10W
R5623	ERJ6GEY0R00	M 0 OHM,J,1/10W
R5626	ERJ6GEYJ102	M 1KOHM,J,1/10W
R5627	ERJ6GEYJ151	M 150 OHM,J,1/10W
R5628	ERJ6GEYJ102	M 1KOHM,J,1/10W
R5629	ERJ6GEYJ333	M 33KOHM,J,1/10W
R5630	ERJ6GEYJ103	M 10KOHM,J,1/10W
R5631	ERJ6GEYJ103	M 10KOHM,J,1/10W
R5632	ERJ6GEYJ223	M 22KOHM,J,1/10W
R5633	ERJ6GEYJ223	M 22KOHM,J,1/10W
R5634	ERJ6GEYJ223	M 22KOHM,J,1/10W
R5635	ERJ6GEYJ103	M 10KOHM,J,1/10W
R5636	ERJ6GEYJ103	M 10KOHM,J,1/10W
R5637	ERJ6GEYJ103	M 10KOHM,J,1/10W
R5638	ERJ6GEYJ223	M 22KOHM,J,1/10W
R5640	ERJ6GEYJ181	M 180 OHM,J,1/10W
R5641	ERJ6GEYJ223	M 22KOHM,J,1/10W
R5643	ERJ6GEYJ333	M 33KOHM,J,1/10W
R5644	ERJ6GEYJ103	M 10KOHM,J,1/10W
R5645	ERJ6GEYJ471	M 470 OHM,J,1/10W
R5646	ERJ6GEYJ103	M 10KOHM,J,1/10W
R5647	ERJ6GEYJ223	M 22KOHM,J,1/10W
R5648	ERJ6GEYJ223	M 22KOHM,J,1/10W
R5649	ERJ6GEYJ152	M 1.5KOHM,J,1/10W
R5654	ERJ6GEYJ333	M 33KOHM,J,1/10W
R5656	ERJ6GEY0R00	M 0 OHM,J,1/10W
R6601	ERDS2TJ102	C 1KOHM, J,1/4W
R6602	ERDS2TJ472	C 4.7KOHM, J,1/4W
R6603	ERDS2TJ103	C 10KOHM, J,1/4W
R6604	ERDS2TJ102	C 1KOHM, J,1/4W
R6605	ERDS2TJ473	C 47KOHM, J,1/4W
R6606	ERDS2TJ563	C 56KOHM, J,1/4W
R6607	ERDS2TJ154	C 150KOHM, J,1/4W
R6608	ERDS2TJ684	C 680KOHM, J,1/4W
R6610	ERDS2TJ563	C 56KOHM, J,1/4W
R6611	ERDS2TJ474	C 470KOHM, J,1/4W
R6612	ERDS2TJ473	C 47KOHM, J,1/4W
R6613	ERDS2TJ472	C 4.7KOHM, J,1/4W
R6614	ERDS2TJ682	C 6.8KOHM, J,1/4W
R6615	ERDS2TJ472	C 4.7KOHM, J,1/4W
R6619	ER0S2CKF1502	M 15KOHM, F,1/4W
R6620	ERDS2TJ102	C 1KOHM, J,1/4W
R6621	ER0S2CKF1502	M 15KOHM, F,1/4W
R6622	ER0S2CKF1822	M18.2KOHM, F,1/4W
R6624	ER0S2CKF1692	M16.9KOHM, F,1/4W
R6625	ERDS2TJ223	C 22KOHM, J,1/4W
R6627	ERDS2TJ472	C 4.7KOHM, J,1/4W
R6629	ERDS2TJ103	C 10KOHM, J,1/4W
R6630	ERDS2TJ472	C 4.7KOHM, J,1/4W
R6632	ERDS2TJ472	C 4.7KOHM, J,1/4W
R6633	ERDS2TJ472	C 4.7KOHM, J,1/4W
R6634	ERDS2TJ103	C 10KOHM, J,1/4W

Ref.No.	Part No.	Description
R6635	ERDS2TJ103	C 10KOHM, J,1/4W
R6636	ERDS2TJ472	C 4.7KOHM, J,1/4W
	CAPACITORS	
C1	ECEA0GKA101	E 100UF, 4V
C2	ECUX1E104ZFG	C 0.1UF, Z, 25V
C3	ECUX1H471JCG	C 470PF, J, 50V
C4	ECUX1H471JCG	C 470PF, J, 50V
C104	ECUX1H103ZFX	C 0.01UF, Z, 50V
C106	ECA1CM471G	E 470UF, 16V
C109	ECUX1H103ZFX	C 0.01UF, Z, 50V
C111	ECUX1H180JCX	C 18PF, J, 50V
C113	ECEA1HFSR47	E 0.47UF, 50V
C114	ECEA1HKN010	E 1UF, 50V
C115	ECUX1H103ZFX	C 0.01UF, Z, 50V
C117	ECUX1H100DCX	C 10PF, D, 50V
C118	ECUX1E104ZFX	C 0.1UF, Z, 25V
C122	ECEA1HFSR47	E 0.47UF, 50V
C125	ECUX1H180JCX	C 18PF, J, 50V
C128	ECUX1H120JCX	C 12PF, J, 50V
C134	ECUX1H103ZFX	C 0.01UF, Z, 50V
C139	ECUX1H103ZFX	C 0.01UF, Z, 50V
C140	ECUX1H103ZFX	C 0.01UF, Z, 50V
C142	ECEA1CKA330	E 33UF, 16V
C143	ECUX1H103ZFX	C 0.01UF, Z, 50V
C145	ECQB1H473JF	P 0.047UF, J, 50V
C147	ECUX1H101JCX	C 100PF, J, 50V
C148	ECUX1H103ZFX	C 0.01UF, Z, 50V
C150	ECUX1H820JCX	C 82PF, J, 50V
C151	ECEA0JKA221	E 220UF, 6.3V
C166	ECUX1H103ZFX	C 0.01UF, Z, 50V
C167	ECEA0JFS471	E 470UF, 6.3V
C201	ECKF1H471KB	C 470PF, K, 50V
C202	ECUX1H103ZFX	C 0.01UF, Z, 50V
C203	ECUX1H101JCX	C 100PF, J, 50V
C250	ECUX1H560JCX	C 56PF, J, 50V
C301	ECQV1H104JZ	P 0.1UF, J, 50V
C302	ECA1HM100G	E 10UF, 50V
C304	ECA1CM102G	E 1000UF, 16V
C305	ECA1HM100G	E 10UF, 50V
C306	ECA1HM100G	E 10UF, 50V
C307	ECA1HM100G	E 10UF, 50V
C308	ECA1HM010G	E 1UF, 50V
C309	ECA1HM0R1G	E 0.1UF, 50V
C310	ECA1HM4R7G	E 4.7UF, 50V
C311	ECA1HM0R1G	E 0.1UF, 50V
C312	ECA1HM0R1G	E 0.1UF, 50V
C351	ECKD3D102KBN	C 1000PF, K, 2KV
C352	ECEA1HKN010	E 1UF, 50V
C353	ECKF1H331KB	C 330PF, K, 50V
C354	ECKF1H471KB	C 470PF, K, 50V
C355	ECKF1H331KB	C 330PF, K, 50V
C356	ECEA1CKA100	E 10UF, 16V
C357	ECKF1H391KB	C 390PF, K, 50V
C358	ECKF1H331KB	C 330PF, K, 50V
C359	ECKF1H391KB	C 390PF, K, 50V
C360	ECEA1CKA100	E 10UF, 16V

Ref.No.	Part No.	Description
C361	ECA1CM101G	E 100UF, 16V
C367	ECEA1EKA100	E 10UF, 25V
C401	ECKF1H101KB	C 100PF, K, 50V
C402	ECCF1H470JC	C 47PF, J, 50V
C451	ECKF1H103ZF	C 0.01UF, Z, 50V
C452	ECEA1HGE101	E 100UF, 50V
C456	ECA1HM101G	E 100UF, 50V
C457	ECA1VM470G	E 47UF, 35V
C458	ECKF1H103ZF	C 0.01UF, Z, 50V
C459	ECKF1H471KB	C 470PF, K, 50V
C470	ECKD2H471KB2	C 470PF, K,500V
C471	ECA1HM102G	E 1000UF, 50V
C472	ECKD2H471KB2	C 470PF, K,500V
C473	ECA1HM102G	E 1000UF, 50V
C474	ECA1CM101G	E 100UF, 16V
C475	ECA1VMH101	E 100UF, 35V
C476	ECA1HM010G	E 1UF, 50V
C477	ECA1CM100G	E 10UF, 16V
C491	ECQB1104JF	P 0.1UF, J,100V
C492	ECEA1HN101S	E 100UF, 50V
C493	ECA1HM010G	E 1UF, 50V
C494	ECA1HM010G	E 1UF, 50V
C495	ECQB1H473JF	P 0.047UF, J, 50V
C496	ECKF1H471KB	C 470PF, K, 50V
C497	ECQB1H473JF	P 0.047UF, J, 50V
C498	ECA1HM101G	E 100UF, 50V
C501	ECQV1H104JZ	P 0.1UF, J, 50V
C503	ECA1HM010G	E 1UF, 50V
C504	ECA1HM2R2G	E 2.2UF, 50V
C505	ECQB1H223JF	P 0.022UF, J, 50V
C506	ECKF1H103ZF	C 0.01UF, Z, 50V
C507	ECA1CM471G	E 470UF, 16V
C508	ECQB1H392JF	P 3900PF, J, 50V
C538	ECCF1H120J	C 12PF, J, 50V
C550	ECQP1153JZ	P 0.015UF, J,100V
C551	ECQB1H393JF	P 0.039UF, J, 50V
C553	ECKDHT332KB	C 3300PF, K,500V
C554	ECKD2H332KB2	C 3300PF, K,500V
C555	ECKD3D122KBN	C 1200PF, K, 2KV
C556	ECQP1123JZ	P 0.012UF, J, 50V
C557	ECKD3D122KBN	C 1200PF, K, 2KV
C558	ECWH15H152JD	P 1500PF, 1.5KV
C559	ECKD2H821KB2	C 820PF, K,500V
C560	ECEA2CGR47S	E 0.47UF, 160V
C563	ECKD2H102KB2	C 1000PF, K,500V
C564	ECEA2EU330	E 33UF, 250V
C568	ECKD2H103KB2	C 0.01UF, K,500V
C569	ECKF1H102KB	C 1000PF, K, 50V
C570	ECCD2H100D	C 10PF, D,500V
C601	ECQB1H473JF	P 0.047UF, J, 50V
C602	ECKF1H103ZF	C 0.01UF, Z, 50V
C603	ECKF1H103ZF	C 0.01UF, Z, 50V
C604	ECKF1H103ZF	C 0.01UF, Z, 50V
C605	ECA1VM470G	E 47UF, 35V
C606	ECQB1H223JF	P 0.022UF, J, 50V
C607	ECCF1H090DC	C 9PF, D, 50V

Ref.No.	Part No.	Description
C608	ECCF1H120JC	C 12PF, J, 50V
C611	ECQB1H223JF	P 0.022UF, J, 50V
C612	ECEA1HKNR47	E 0.47UF, 50V
C613	ECEA1HKNR47	E 0.47UF, 50V
C616	ECKF1H103ZF	C 0.01UF, Z, 50V
C617	ECA1VM470G	E 47UF, 35V
C618	ECCF1H101JC	C 100PF, J, 50V
C619	ECQV1H104JZ	P 0.1UF, J, 50V
C620	ECQB1H223JF	P 0.022UF, J, 50V
C621	ECQV1H104JZ	P 0.1UF, J, 50V
C622	ECKF1H103ZF	C 0.01UF, Z, 50V
C623	ECA1CM471G	E 470UF, 16V
C624	ECA1HMR47G	E 0.47UF, 50V
C625	ECA1HMR47G	E 0.47UF, 50V
C626	ECA1HMR47G	E 0.47UF, 50V
C627	ECKF1H103ZF	C 0.01UF, Z, 50V
C628	ECA1HM010G	E 1UF, 50V
C629	ECCF1H820JC	C 82PF, J, 50V
C630	ECA1CM102G	E 1000UF, 16V
C631	ECCF1H560JC	C 56PF, J, 50V
C632	ECEA1HKN2R2	E 2.2UF, 50V
C633	ECEA1HKA0R1	E 0.1UF, 50V
C634	ECEA1HKA0R1	E 0.1UF, 50V
C635	ECEA1HKA0R1	E 0.1UF, 50V
C638	ECQB1H473JF	P 0.047UF, J, 50V
C639	ECQV1H104JV	P 0.1UF, J, 50V
C640	ECQB1H473JF	P 0.047UF, J, 50V
C641	ECQV1H104JV	P 0.1UF, J, 50V
C642	ECA1HM100G	E 10UF, 50V
C643	ECEA1HKNR47	E 0.47UF, 50V
C644	ECA1HMR47G	E 0.47UF, 50V
C645	ECA1HMR47G	E 0.47UF, 50V
C646	ECEA1HKNR47	E 0.47UF, 50V
C649	ECEA1HKNR47	E 0.47UF, 50V
C650	ECA1HM100G	E 10UF, 50V
C651	ECQV1H104JZ	P 0.1UF, J, 50V
C652	ECQV1H104JZ	P 0.1UF, J, 50V
C653	ECQV1H104JZ	P 0.1UF, J, 50V
C654	ECQV1H104JZ	P 0.1UF, J, 50V
C655	ECA1HM100G	E 10UF, 50V
C657	ECKF1H103ZF	C 0.01UF, Z, 50V
C658	ECKF1H103ZF	C 0.01UF, Z, 50V
C659	ECA1VM470G	E 47UF, 35V
C660	ECUX1H103ZFX	C 0.01UF, Z, 50V
C661	ECQV1H104JZ	P 0.1UF, J, 50V
C662	ECA1HMR47G	E 0.47UF, 50V
C663	ECA1HMR47G	E 0.47UF, 50V
C664	ECA1VM470G	E 47UF, 35V
C665	ECKF1H103ZF	C 0.01UF, Z, 50V
C670	ECKF1H102KB	C 1000PF, K, 50V
C671	ECEA1CKA101	E 100UF, 16V
C676	ECA1HM220G	E 22UF, 50V
C701	ECA1VM101G	E 100UF, 35V
C702	ECSF1VE334V	T 0.33UF, 35V
C703	ECEA1HFS2R2	E 2.2UF, 50V
C704	ECQB1H333JF	P 0.033UF, J, 50V

Ref.No.	Part No.	Description
C705	ECA1HMH100	E 10UF, 50V
C706	ECA1HMH100	E 10UF, 50V
C707	ECQB1H473JF	P 0.047UF, J, 50V
C708	ECA1HM471G	E 470UF, 50V
C709	ECEA1HN100S	E 10UF, 50V
C710	ECQB1H333JF	P 0.033UF, J, 50V
C712	ECEA1HFS010	E 1UF, 50V
C714	ECA1HM100G	E 10UF, 50V
C715	ECA1HM3R3G	E 3.3UF, 50V
C716	ECA1HM3R3G	E 3.3UF, 50V
C717	ECKF1H103ZF	C 0.01UF, Z, 50V
C718	ECKF1H103ZF	C 0.01UF, Z, 50V
C721	ECWH12H123JS	P 0.012UF,J,1.2KV
C722	ECQF6183JZ	P 0.018UF, J,630V (ONLY FOR TX-28WG10X)
C722	ECQF6153JZ	P 0.015UF, J,630V (ONLY FOR TX-24WG10X)
C723	ECQF2H434JSA	P 0.43UF, J,200V
C724	ECQE2474JF	P 0.47UF, J, 250V
C756	ECEA1HW4R7S	E 4.7UF, 50V
C771	ECQF2H224JSA	P 0.22UF, J,200V (ONLY FOR TX-28WG10X)
C771	ECQF2H274JSA	P 0.27UF, J,200V (ONLY FOR TX-24WG10X)
C801	ECKDAE472ZE	C 4700PF, Z,
C802	ECKDAE472ZE	C 4700PF, Z,
C803	ECKDAE472ZE	C 4700PF, Z,
C804	ECKDAE472ZE	C 4700PF, Z,
C807	ECEA0JKA101	E 100UF, 6.3V
C808	ECQB1H682JF	P 6800PF, J, 50V
C809	ECKWHT472KB	C 4700PF, K,500V
C810	ECKD3D122KBN	C 1200PF, K, 2KV
C811	ECA1VM101G	E 100UF, 35V
C812	ECKD3D102JBN	C 1000PF, J, 2KV
C813	ECQV1H104JZ	P 0.1UF, J, 50V
C814	ECKF1H221KB	C 220PF, K, 50V
C815	ECA1HM4R7G	E 4.7UF, 50V
C816	ECKDNS471MBJ	C 470PF, M, ⚠
C817	ECKDNS471MBJ	C 470PF, M, ⚠
C818	EC0S2FP331DB	E 330UF, 315V (ONLY FOR TX-28WG10X)
C818	EC0S2FP221BB	E 220UF, 315V (ONLY FOR TX-24WG10X)
C819	EC0S2FP331DB	E 330UF, 315V (ONLY FOR TX-28WG10X)
C819	EC0S2FP221BB	E 220UF, 315V (ONLY FOR TX-24WG10X)
C820	ECKD3A472KBN	C 4700PF, K, 1KV
C821	ECKD2H472PU	C 4700PF, P,500V
C822	ECEA2WGE3R3	E 3.3UF, 450V
C823	ECKF1H102KB	C 1000PF, K, 50V
C824	ECA1HM100G	E 10UF, 50V
C825	ECQB1H823JF	P 0.082UF, J, 50V
C826	ECKD2H103ZU	C 0.01UF, Z,500V
C828	ECKD3D221JBN	C 220PF, J, 2KV
C829	ECA1CM102G	E 1000UF, 16V
C830	ECKD2H102KB2	C 1000PF, K,500V
C831	ECA1HM222G	E 2200UF, 50V

TX–24 / 28WG10X

Ref.No.	Part No.	Description
C832	ECKD3D222KBN	C 2200PF, K, 2KV
C833	ECES2CG221E	E 220UF, 160V
C834	ECES2CG221E	E 220UF, 160V
C835	ECKD2H102KB2	C 1000PF, K,500V
C836	EEUFA1E222	E 2200UF, 25V
C837	ECEA1CGE100	E 10UF, 16V
C838	ECA1HM470G	E 47UF, 50V
C839	ECA1VM101G	E 100UF, 35V
C840	ECEA1CGE470	E 47UF, 16V
C841	ECA1HMH470	E 47UF, 50V
C842	ECKF1H561KB	C 560PF, K, 50V
C843	ECA1AFZ471	E 470UF, 10V
C844	ECKF1H103ZF	C 0.01UF, Z, 50V
C845	ECKF1H101KB	C 100PF, K, 50V
C846	ECKF1H103ZF	C 0.01UF, Z, 50V
C847	ECKF1H103ZF	C 0.01UF, Z, 50V
C850	ECEA2AU221	E 220UF, 100V
C855	ECKD2H102KB2	C 1000PF, K,500V
C856	ECA1HMR47G	E 0.47UF, 50V
C857	ECQV1H104JZ	P 0.1UF, J, 50V
C860	ECQV1H684JZ	P 0.68UF, J, 50V
C870	ECQU2A683MN	P 0.068UF, M,250V ⚠
C873	ECKDNS332MEJ	C 3300PF, M, ⚠
C874	ECKDNS222MEJ	C 2200PF, M, ⚠
C875	ECKDNS332MEJ	C 3300PF, M, ⚠
C876	ECQU2A224MN	P 0.22UF, M,250V ⚠
C878	ECKD2H101KB2	C 100PF, K,500V
C910	ECEA1CKA101	E 100UF, 16V
C911	ECQB1H392KF	P 3900PF, K, 50V
C912	ECQB1H103KF	P 0.01UF, K, 50V
C913	ECQB1H272KF	P 2700PF, K, 50V
C914	ECHS1H562FZ	P 5600PF, F, 50V
C915	ECQB1H103KF	P 0.01UF, K, 50V
C916	ECEA1HKA010	E 1UF, 50V
C917	ECEA1HKA4R7	E 4.7UF, 50V
C918	ECEA1CKA101	E 100UF, 16V
C952	ECEA1CKA100	E 10UF, 16V
C953	ECKF1H471KB	C 470PF, K, 50V
C954	ECKF1H271KB	C 270PF, K, 50V
C958	ECEA2CU100	E 10UF, 160V
C959	ECKD2H472KB2	C 4700PF, K,500V
C960	ECCF1H151J	C 150PF, J, 50V
C961	ECEA2CU100	E 10UF, 160V
C962	ECKWHT472KB	C 4700PF, K,500V
C963	ECCF1H151J	C 150PF, J, 50V
C964	ECEA0JGE101	E 100UF, 6.3V
C966	ECEA0JKA101	E 100UF, 6.3V
C967	ECA1AM331G	E 330UF, 10V
C1041	ECA1HM470G	E 47UF, 50V
C1042	ECA1CM101G	E 100UF, 16V
C1043	ECA1HM470G	E 47UF, 50V
C1046	ECA1CM221G	E 220UF, 16V
C1047	ECQB1H223JF	P 0.022UF, J, 50V
C1101	ECA1HM3R3G	E 3.3UF, 50V
C1102	ECKF1H103ZF	C 0.01UF, Z, 50V
C1103	ECA1CM101G	E 100UF, 16V

Ref.No.	Part No.	Description
C1104	ECA1CM101G	E 100UF, 16V
C1105	ECA1HM470G	E 47UF, 50V
C1106	ECKF1H102KB	C 1000PF, K, 50V
C1107	ECA1VM101G	E 100UF, 35V
C1108	ECA1HM100G	E 10UF, 50V
C1109	ECA1HM100G	E 10UF, 50V
C1111	ECKF1H103ZF	C 0.01UF, Z, 50V
C1114	ECKF1H103ZF	C 0.01UF, Z, 50V
C1115	ECKF1H103ZF	C 0.01UF, Z, 50V
C1210	ECA1HM100G	E 10UF, 50V
C1213	ECKF1H103ZF	C 0.01UF, Z, 50V
C1215	ECKF1H101KB	C 100PF, K, 50V
C1221	ECKF1H103ZF	C 0.01UF, Z, 50V
C1222	ECA1CM471G	E 470UF, 16V
C1226	ECA1VM470G	E 47UF, 35V
C1228	ECKD2H561KB2	C 560PF, K,500V
C1230	ECA1CM471G	E 470UF, 16V
C1241	ECCF1H151J	C 150PF, J, 50V
C1242	ECCF1H151J	C 150PF, J, 50V
C1243	ECCF1H151J	C 150PF, J, 50V
C1244	ECCF1H101J	C 100PF, J, 50V
C1249	ECKF1H103ZF	C 0.01UF, Z, 50V
C1251	ECKF1H103ZF	C 0.01UF, Z, 50V
C1253	ECCF1H101J	C 100PF, J, 50V
C1502	ECA1HM471G	E 470UF, 50V
C1576	ECKF1H101KB	C 100PF, K, 50V
C2001	ECUX1H103ZFX	C 0.01UF, Z, 50V
C2002	ECUX1H331JCX	C 330PF, J, 50V
C2003	ECUX1H223ZFX	C 0.022UF, Z, 50V
C2004	ECQB1H104KF	P 0.1UF, K, 50V
C2005	ECUX1H101JCX	C 100PF, J, 50V
C2006	ECUX1H101JCX	C 100PF, J, 50V
C2007	ECUX1H330JCX	C 33PF, J, 50V
C2008	ECUX1H330JCX	C 33PF, J, 50V
C2009	ECUX1H331JCX	C 330PF, J, 50V
C2010	ECUX1H682KBX	C 6800PF, K, 50V
C2011	ECUX1H680JCX	C 68PF, J, 50V
C2012	ECUX1H151JCX	C 150PF, J, 50V
C2013	ECUX1H151JCX	C 150PF, J, 50V
C2014	ECUX1H104ZFX	C 0.1UF, Z, 50V
C2015	ECQV1H224JV	P 0.22UF, J, 50V
C2016	ECUX1H103ZFX	C 0.01UF, Z, 50V
C2017	ECEA1CKA470	E 47UF, 16V
C2018	ECEA1CKA470	E 47UF, 16V
C2019	ECUX1H103ZFX	C 0.01UF, Z, 50V
C2020	ECUX1H103ZFX	C 0.01UF, Z, 50V
C2021	ECEA1CKA470	E 47UF, 16V
C2022	ECEA1CKA470	E 47UF, 16V
C2023	ECEA1CKN100	E 10UF, 16V
C2024	ECUX1H331JCX	C 330PF, J, 50V
C2025	ECUX1H680JCX	C 68PF, J, 50V
C2026	ECUX1H331JCX	C 330PF, J, 50V
C2027	ECUX1H680JCX	C 68PF, J, 50V
C2028	ECEA1CKN100	E 10UF, 16V
C2029	ECEA1CKA470	E 47UF, 16V
C2030	ECEA1CKA470	E 47UF, 16V

Ref.No.	Part No.	Description
C2031	ECUX1H103ZFX	C 0.01UF, Z, 50V
C2032	ECEA1CKA470	E 47UF, 16V
C2034	ECUX1H101JCX	C 100PF, J, 50V
C2035	ECUX1H103ZFX	C 0.01UF, Z, 50V
C2037	ECEA1AKA101	E 100UF, 10V
C2039	ECUX1H102KBX	C 1000PF, K, 50V
C2040	ECUX1H102KBX	C 1000PF, K, 50V
C2041	ECUX1H103ZFX	C 0.01UF, Z, 50V
C2042	ECUX1E223KBX	C 0.022UF, K, 25V
C2043	ECQV1H334JV	P 0.33UF, J, 50V
C2047	ECEA1CKN100	E 10UF, 16V
C2048	ECEA1CKA220	E 22UF, 16V
C2049	ECEA1CKN100	E 10UF, 16V
C2050	ECEA1CKA100	E 10UF, 16V
C2056	ECUX1H103ZFX	C 0.01UF, Z, 50V
C2060	ECUX1H103ZFX	C 0.01UF, Z, 50V
C2066	ECUX1H102KBX	C 1000PF, K, 50V
C2067	ECUX1H102KBX	C 1000PF, K, 50V
C2068	ECUX1H272KBX	C 2700PF, K, 50V
C2069	ECUX1H272KBX	C 2700PF, K, 50V
C2070	ECUX1H821KBX	C 820PF, K, 50V
C2071	ECUX1H821KBX	C 820PF, K, 50V
C2075	ECUX1H103ZFX	C 0.01UF, Z, 50V
C2076	ECUX1H102ZFX	C 1000PF, Z, 50V
C2077	ECUX1H102ZFX	C 1000PF, Z, 50V
C2078	ECUX1H820JCX	C 82PF, J, 50V
C2079	ECUX1H820JCX	C 82PF, J, 50V
C2098	ECUX1H103ZFX	C 0.01UF, Z, 50V
C2099	ECUX1H103ZFX	C 0.01UF, Z, 50V
C2129	ECEA1CKN100	E 10UF, 16V
C2131	ECA1CM470G	E 47UF, 16V
C2132	ECUX1H103ZFX	C 0.01UF, Z, 50V
C2133	ECQB1H104KF	P 0.1UF, K, 50V
C2134	ECQB1H223JF	P 0.022UF, J, 50V
C2135	ECA1CM101G	E 100UF, 16V
C2136	ECUX1H120JCX	C 12PF, J, 50V
C2137	ECQB1H102JF	P 1000PF, J, 50V
C2150	ECUX1H470JCX	C 47PF, J, 50V
C2201	ERD25V0R00	C 0OHM, 1/4W
C2202	ECEA1HKA4R7	E 4.7UF, 50V
C2203	ECEA1HKA010	E 1UF, 50V
C2205	ECUX1H103ZFX	C 0.01UF, Z, 50V
C2206	ECEA1CKA100	E 10UF, 16V
C2207	ECQB1H224KF	P 0.22UF, K, 50V
C2208	ECEA1HKA4R7	E 4.7UF, 50V
C2219	ECEA1HKAR47	E 0.47UF, 50V
C2220	ECUX1H101JCX	C 100PF, J, 50V
C2243	ECUX1H101JCX	C 100PF, J, 50V
C2260	ECUX1H103ZFX	C 0.01UF, Z, 50V
C2261	ECUX1H103ZFX	C 0.01UF, Z, 50V
C2262	ECUX1H103ZFX	C 0.01UF, Z, 50V
C2263	ECUX1H103ZFX	C 0.01UF, Z, 50V
C2306	ECA1VM101G	E 100UF, 35V
C2307	ECA1VM101G	E 100UF, 35V
C2308	ECQB1H822JF	P 8200PF, J, 50V
C2309	ECQB1H822JF	P 8200PF, J, 50V
C2311	ECA1VM101G	E 100UF, 35V
C2312	ECA1HM102G	E 1000UF, 50V
C2313	ECA1HM102G	E 1000UF, 50V
C2317	ECA1HM100G	E 10UF, 50V
C2318	ECA1HM100G	E 10UF, 50V
C2319	ECQV1H104JZ	P 0.1UF, J, 50V
C2320	ECQV1H104JZ	P 0.1UF, J, 50V
C2321	ECA1HM102G	E 1000UF, 50V
C2322	ECA1VM220G	E 22UF, 50V
C2323	ECA1HM102G	E 1000UF, 50V
C2374	ECKF1H103ZF	C 0.01UF, Z, 50V
C2375	ECA1HM220G	E 22UF, 50V
C2402	ECA1HM0R1G	E 0.1UF, 50V
C2403	ECUX1H472KBX	C 4700PF, K, 50V
C2404	ECA1HM4R7G	E 4.7UF, 50V
C2405	ECA1HM4R7G	E 4.7UF, 50V
C2406	ECA1HM4R7G	E 4.7UF, 50V
C2407	ECA1HM4R7G	E 4.7UF, 50V
C2408	ECA1HM4R7G	E 4.7UF, 50V
C2409	ECUX1H103KBX	C 0.01UF, K, 50V
C2410	ECUX1H472KBX	C 4700PF, K, 50V
C2411	ECUX1H472KBX	C 4700PF, K, 50V
C2412	ECUX1H472KBX	C 4700PF, K, 50V
C2413	ECUX1H223KBX	C 0.022UF, K, 50V
C2414	ECUX1H822KBX	C 8200PF, K, 50V
C2415	ECUX1H822KBX	C 8200PF, K, 50V
C2416	ECA1HM100G	E 10UF, 50V
C2417	ECA1CM101G	E 100UF, 16V
C2418	ECA1HM4R7G	E 4.7UF, 50V
C2419	ECUX1H102KBX	C 1000PF, K, 50V
C2420	ECUX1H333KBX	C 0.033UF, K, 50V
C2421	ECA1VM470G	E 47UF, 35V
C2422	ECUX1H472KBX	C 4700PF, K, 50V
C2423	ECA1HM0R1G	E 0.1UF, 50V
C2424	ECEA1HKN010	E 1UF, 50V
C2425	ECUX1H151JCX	C 150PF, J, 50V
C2426	ECUX1H151JCX	C 150PF, J, 50V
C2427	ECEA1HKN010	E 1UF, 50V
C2428	ECEA1HKN010	E 1UF, 50V
C2429	ECA1HM010G	E 1UF, 50V
C2430	TCUY1C105ZFN	C 1UF, 16V
C2431	ECEA1CKN100	E 10UF, 16V
C2432	ECEA1CKN100	E 10UF, 16V
C2433	ECEA1CKN100	E 10UF, 16V
C2434	ECEA1HKN010	E 1UF, 50V
C2435	ECEA1HKN010	E 1UF, 50V
C2436	ECEA1HKN010	E 1UF, 50V
C2438	ECEA1HKN010	E 1UF, 50V
C2439	ECEA1HKN010	E 1UF, 50V
C2440	ECA1CM101G	E 100UF, 16V
C2441	ECA1CM101G	E 100UF, 16V
C2442	ECA1CM101G	E 100UF, 16V
C2443	ECUX1H103KBX	C 0.01UF, K, 50V
C2452	ECEA1HKN010	E 1UF, 50V
C2459	ECUX1H101JCX	C 100PF, J, 50V
C2460	ECUX1H101JCX	C 100PF, J, 50V

TX-24 / 28WG10X

Ref.No.	Part No.	Description
C2461	ECUX1H103KBX	C 0.01UF,K,50V TX-28WG10X
C2461	ECUX1H822KBX	C 8.2PF,K,50V TX-24WG10X
C2462	ECUX1H153KBX	C 0.015UF,K,50V TX-28WG10X
C2462	ECUX1H103KBX	C 0.01UF, K,50V TX-24WG10X
C2463	ECEA1HKN010	E 1UF, 50V
C2464	ECA1HM330G	E 33UF, 50V
C2465	ECUX1H151JCX	C 150PF, J, 50V
C2466	ECA1HM100G	E 10UF, 50V
C2467	ECA1HM010G	E 1UF, 50V
C2468	ECEA1HKN010	E 1UF, 50V
C2469	ECEA1HKN010	E 1UF, 50V
C2470	ECA1HM010G	E 1UF, 50V
C2471	ECUX1H151JCX	C 150PF, J, 50V
C2472	ECA1HM100G	E 10UF, 50V
C3001	ECEA1HKN010	E 1UF, 50V
C3002	ECEA1HKN010	E 1UF, 50V
C3003	ECEA1HKA220	E 22UF, 50V
C3004	ECEA1HKA010	E 1UF, 50V
C3005	ECEA1HKA010	E 1UF, 50V
C3006	ECEA1HKN010	E 1UF, 50V
C3007	ECEA1HKA010	E 1UF, 50V
C3008	ECEA1HKN010	E 1UF, 50V
C3009	ECEA1HKA010	E 1UF, 50V
C3010	ECEA1HKN010	E 1UF, 50V
C3011	ECEA1CKA101	E 100UF, 16V
C3012	ECEA1CKN220	E 22UF, 16V
C3013	ECEA1HKA220	E 22UF, 50V
C3014	ECEA1HKN010	E 1UF, 50V
C3015	ECEA1HKA220	E 22UF, 50V
C3017	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3018	ECEA1HKA010	E 1UF, 50V
C3020	ECEA1HKA010	E 1UF, 50V
C3021	ECEA1CKA101	E 100UF, 16V
C3022	ECEA1AKA221	E 220UF, 10V
C3023	ECEA1HKN010	E 1UF, 50V
C3024	ECEA1HKN010	E 1UF, 50V
C3025	ECEA1AKA221	E 220UF, 10V
C3028	ECEA1CKA101	E 100UF, 16V
C3029	ECUX1H680JCX	C 68PF, J, 50V
C3031	ECUX1H220JCX	C 22PF, J, 50V
C3032	ECUX1H222ZFX	C 2200PF, Z, 50V
C3033	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3036	ECEA1HKN010	E 1UF, 50V
C3037	ECEA1HKA100	E 10UF, 50V
C3038	ECEA1CKN220	E 22UF, 16V
C3045	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3046	ECEA1CKA220	E 22UF, 16V
C3047	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3049	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3050	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3052	ECEA1CKN220	E 22UF, 16V
C3053	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3055	ECUX1H221JCX	C 220PF, J, 50V
C3056	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3057	ECQB1H472KF	P 4700PF, K, 50V
C3058	ECEA1CKN220	E 22UF, 16V
C3059	ECEA1CKA100	E 10UF, 16V
C3060	ECEA1CKA220	E 22UF, 16V
C3061	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3065	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3066	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3067	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3068	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3070	ECUX1H221JCX	C 220PF, J, 50V
C3071	ECQB1H103KF	P 0.01UF, K, 50V
C3074	ECA1CM470G	E 47UF, 16V
C3077	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3078	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3079	ECQB1H103KF	P 0.01UF, K, 50V
C3081	ECUX1H100DCX	C 10PF, D, 50V
C3082	ECUX1H100DCX	C 10PF, D, 50V
C3107	ECEA1HKA220	E 22UF, 50V
C3111	ECUX1H102KBX	C 1000PF, K, 50V
C3112	ECUX1H102KBX	C 1000PF, K, 50V
C3113	ECUX1H102KBX	C 1000PF, K, 50V
C3114	ECUX1H102KBX	C 1000PF, K, 50V
C3115	ECUX1H102KBX	C 1000PF, K, 50V
C3116	ECUX1H102KBX	C 1000PF, K, 50V
C3117	ECUX1H102KBX	C 1000PF, K, 50V
C3118	ECUX1H102KBX	C 1000PF, K, 50V
C3119	ECQV1H104JZ	P 0.1UF, J, 50V
C3148	ECEA1CU471	E 470UF, 16V
C3149	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3180	ECKF1H103ZF	C 0.01UF, Z, 50V
C3181	ECEA1HN010S	E 1UF, 50V
C3182	ECEA1HN010S	E 1UF, 50V
C3275	ECQV1H104JV	P 0.1UF, J, 50V
C3276	ECQV1H104JV	P 0.1UF, J, 50V
C3277	ECQV1H104JV	P 0.1UF, J, 50V
C3278	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3279	ECEA1CKA220	E 22UF, 16V
C3301	ECEA1HKA010	E 1UF, 50V
C3368	ECQB1H562KF	P 5600PF, K, 50V
C3369	ECEA1HKAR22	E 0.22UF, 50V
C3502	ECQV1H104JV	P 0.1UF, J, 50V
C3503	ECQV1H104JV	P 0.1UF, J, 50V
C3505	ECQV1H104JV	P 0.1UF, J, 50V
C3518	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3524	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3525	ECEA1CKA470	E 47UF, 16V
C3526	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3527	ECUX1H150JCX	C 15PF, J, 50V
C3532	ECQB1H223JF	P 0.022UF, J, 50V
C3533	ECQV1H104JV	P 0.1UF, J, 50V
C3534	ECA0JM471	E 470UF, 6.3V
C3544	ECUX1H150JCX	C 15PF, J, 50V
C3545	ECUX1H270JCX	C 27PF, J, 50V
C3546	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3548	ECEA0JKA101	E 100UF, 6.3V
C3550	ECEA1HKN010	E 1UF, 50V
C3552	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3553	ECA1CM221	E 220UF, 16V

Ref.No.	Part No.	Description
C3555	ECEA1CKN330	E 33UF, 16V
C3557	ECUX1H330JCX	C 33PF, J, 50V
C3561	ECEA1HKA2R2	E 2.2UF, 50V
C3565	ECUX1H102JCX	C 1000PF, J, 50V
C3566	ECUX1H391KBX	C 390PF, K, 50V
C3567	ECUX1H391KBX	C 390PF, K, 50V
C3568	ECUX1H391KBX	C 390PF, K, 50V
C3569	ECA1CM221	E 220UF, 16V
C3570	ECA0JM471	E 470UF, 6.3V
C3571	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3572	ECUX1H121JCX	C 120PF, J, 50V
C3573	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3575	ECA1CM101	E 100UF, 16V
C3576	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3577	ECEA0JKA101	E 100UF, 6.3V
C3578	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3580	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3581	ECEA0JKN220	E 22UF, 6.3V
C3583	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3585	ECUX1H100DCX	C 10PF, D, 50V
C3602	ECEA1CKN220	E 22UF, 16V
C3604	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3605	ECEA1HKA010	E 1UF, 50V
C3606	ECEA1CKN470	E 47UF, 16V
C3607	ECUX1H121JCX	C 120PF, J, 50V
C3608	ECEA1CKA100	E 10UF, 16V
C3609	ECEA1HKA010	E 1UF, 50V
C3610	ECEA1EKN3R3	E 3.3UF, 25V
C3626	ECQV1H104JV	P 0.1UF, J, 50V
C3628	ECUX1H103ZFX	C 0.01UF, Z, 50V
C3629	ECEA1HKA010	E 1UF, 50V
C3630	ECEA1HKA010	E 1UF, 50V
C3631	ECQB1H222JF	P 2200PF, J, 50V
C3640	ECEA1HKA010	E 1UF, 50V
C3646	ECEA1HKA010	E 1UF, 50V
C3648	ECEA1HKN010	E 1UF, 50V
C3649	ECQP1H471JZ	P 470PF, J, 50V
C3652	ECEA1CKA100	E 10UF, 16V
C3662	ECEA1CKN330	E 33UF, 16V
C3663	ECEA1CKA220	E 22UF, 16V
C3667	ECUX1H103ZFX	C 0.01UF, Z, 50V
C5501	ECUX1H103ZFX	C 0.01UF, Z, 50V
C5504	ECUX1H150JCX	C 15PF, J, 50V
C5505	ECUX1H150JCX	C 15PF, J, 50V
C5508	ECUX1H180JCX	C 18PF, J, 50V
C5509	ECUX1H180JCX	C 18PF, J, 50V
C5511	ECUX1H103ZFX	C 0.01UF, Z, 50V
C5512	ECEA1CKA101	E 100UF, 16V
C5514	ECEA1CKA101	E 100UF, 16V
C5515	ECEA1HKA010	E 1UF, 50V
C5516	ECUX1H104ZFX	C 0.1UF, Z, 50V
C5517	ECUX1H103ZFX	C 0.01UF, Z, 50V
C5518	ECUX1H103ZFX	C 0.01UF, Z, 50V
C5519	ECUX1H103ZFX	C 0.01UF, Z, 50V
C5520	ECEA0JKA331	E 330UF, 6.3V
C5521	ECEA0JKA331	E 330UF, 6.3V

Ref.No.	Part No.	Description
C5522	ECUX1H103ZFX	C 0.01UF, Z, 50V
C5523	ECUX1H103ZFX	C 0.01UF, Z, 50V
C5524	ECA1CM101G	E 100UF, 16V
C5525	ECUX1H470JCX	C 47PF, J, 50V
C5526	ECEA1CN220S	E 22UF, 16V
C5527	ECEA1CKN220	E 22UF, 16V
C5528	ECA1CM470G	E 47UF, 16V
C5529	ECUX1H103ZFX	C 0.01UF, Z, 50V
C5530	ECUX1H101JCX	C 100PF, J, 50V
C5531	ECEA1CKN220	E 22UF, 16V
C5532	ECUX1H103ZFX	C 0.01UF, Z, 50V
C5533	ECEA1CKN220	E 22UF, 16V
C5534	ECUX1H103ZFX	C 0.01UF, Z, 50V
C5535	ECEA1CKN220	E 22UF, 16V
C5536	ECEA1HKA220	E 22UF, 50V
C5537	ECUX1H103ZFX	C 0.01UF, Z, 50V
C5538	ECEA1CKN220	E 22UF, 16V
C5539	ECA1CM101G	E 100UF, 16V
C5540	ECUX1H103ZFX	C 0.01UF, Z, 50V
C5541	ECUX1H150JCX	C 15PF, J, 50V
C5542	ECUX1H330JCX	C 33PF, J, 50V
C5543	ECA1HM2R2G	E 2.2UF, 50V
C5544	ECUX1H103ZFX	C 0.01UF, Z, 50V
C5545	ECA1CM101G	E 100UF, 16V
C5546	ECEA1EN220S	E 22UF, 25V
C5548	ECUX1H101JCX	C 100PF, J, 50V
C5549	ECEA0JKA331	E 330UF, 6.3V
C5550	ECUX1H103ZFX	C 0.01UF, Z, 50V
C5551	ECQV1H474JZ	P 0.47UF, J, 50V
C5552	ECEA1CKN220	E 22UF, 16V
C5553	ECEA1CKN220	E 22UF, 16V
C5554	ECUX1H103ZFX	C 0.01UF, Z, 50V
C5555	ECUX1H103ZFX	C 0.01UF, Z, 50V
C5556	ECUX1H103ZFX	C 0.01UF, Z, 50V
C5557	ECUX1H103ZFX	C 0.01UF, Z, 50V
C5559	ECUX1H150JCX	C 15PF, J, 50V
C5560	ECUX1H150JCX	C 15PF, J, 50V
C5561	ECUX1H391JCX	C 390PF, J, 50V
C5562	ECUX1H220JCX	C 22PF, J, 50V
C5564	ECUX1H100DCX	C 10PF, D, 50V
C5565	ECEA1CKA101	E 100UF, 16V
C5566	ECA1CM101G	E 100UF, 16V
C5569	ECUX1H220JCX	C 22PF, J, 50V
C6601	ECCF1H221JC	C 220PF, J, 50V
C6602	ECCF1H221JC	C 220PF, J, 50V
C6603	ECA1CM102G	E 1000UF, 16V
C6604	ECKF1H103ZF	C 0.01UF, Z, 50V
C6605	ECA1VMH470	E 47UF, 35V
C6606	ECKF1H103ZF	C 0.01UF, Z, 50V
C6607	ECKF1H102KB	C 1000PF, K, 50V
C6608	ECKF1H151KB	C 150PF, K, 50V
	OTHERS	
A1	TJS5A9830	8P CONNECTOR
A2	TJS5A9830	8P CONNECTOR
A3	TJS5A9830	8P CONNECTOR
A4	TJS5A9830	8P CONNECTOR

TX–24 / 28WG10X

Ref.No.	Part No.	Description
A5	TJS5A9830	8P CONNECTOR
A6	TJS1A8130	PHONO PIN (7P)
A7	TJS118600	3P CONNECTOR
A8	TJS5A9850	8P CONNECTOR
A9	TJS5A9850	8P CONNECTOR
A10	TJS5A9850	8P CONNECTOR
A11	TJS3A8520	30P CONNECTOR
A12	TJS3A8520	30P CONNECTOR
A21	TJS5A9420	8P CONNECTOR
A22	TJS5A9420	8P CONNECTOR
A24	TJS5A9420	8P CONNECTOR
A25	TJS5A9420	8P CONNECTOR
A26	TJS5A9420	8P CONNECTOR
A31	TJS5A9420	8P CONNECTOR
A32	TJS5A9420	8P CONNECTOR
A40	TJS5A9420	8P CONNECTOR
A41	TJS5A9420	8P CONNECTOR
A42	TJS5A9420	8P CONNECTOR
A43	TJS5A9420	8P CONNECTOR
B1	TJS5A8160	CONNECTOR
B2	TJS5A8160	CONNECTOR
B3	TJS5A8160	CONNECTOR
D1	TJS5A9840	8P CONNECTOR
D2	TJS5A9840	8P CONNECTOR
D3	TJS5A9840	8P CONNECTOR
D4	TJS5A9840	8P CONNECTOR
D5	TJS5A9840	8P CONNECTOR
D6	TJS5A9420	8P CONNECTOR
D8	TJS5A9420	8P CONNECTOR
D9	TJS5A9420	8P CONNECTOR
D10	TJS5A9420	8P CONNECTOR
D11	TJS5A9420	8P CONNECTOR
D12	TJS5A9420	8P CONNECTOR
D13	TJS5A9420	8P CONNECTOR
D14	TJS5A9420	8P CONNECTOR
D15	TJS5A9420	8P CONNECTOR
D16	TJS118640	PHONO PIN
F1	TJS5A8160	CONNECTOR
F2	TJS5A8160	CONNECTOR
H1	TJS3A8530	30P CONNECTOR
H2	TJS3A8530	30P CONNECTOR
H3	TJS1A8140	PHONO PIN (8P)
K1	TJS5A9860	8P CONNECTOR TX-28WG10X
K2	TJS5A9860	8P CONNECTOR TX-28WG10X
K3	TJS5A9860	8P CONNECTOR TX-28WG10X
K6	TJS5A9860	8P CONNECTOR TX-24WG10X
K7	TJS5A9860	8P CONNECTOR TX-24WG10X
K8	TJS5A9860	8P CONNECTOR TX-24WG10X
L1	TJS118650	PHONO PIN
L3	TJS118640	PHONO PIN
L4	TJS118590	2P CONNECTOR
P3	TJS5A8160	CONNECTOR
P5	TJS5A8160	CONNECTOR
P6	TJS3A8020	AC CONNECTOR
T1	TJS5A8160	CONNECTOR
T2	TJS5A8160	CONNECTOR

Ref.No.	Part No.	Description
X1	TJS3A9150	CONNECTOR
X2	TJS3A9150	CONNECTOR
X3	TJS3A9150	CONNECTOR
X4	TJS3A9150	CONNECTOR
X5	TJS3A9150	CONNECTOR
X6	TJS3A9150	CONNECTOR
X7	TJS3A9150	CONNECTOR
X8	TJS1A8090	PHONO PIN (3P)
Y1	TJS3A9150	CONNECTOR
Y2	TJS3A9150	CONNECTOR
Y3	TJS3A9150	CONNECTOR
Y4	TJS3A9150	CONNECTOR
Z1	TJS6A9670	6P CONNECTOR
Z2	TJS6A9670	6P CONNECTOR
F801	XBA2C40TR0	FUSE 250V 4A ⚠
F801-1	XCST13301	FUSE HOLDER
F801-2	XCST13301	FUSE HOLDER
JK351	TJS1A5210	CRT SOCKET ⚠
JK3151	TJB18641	FRONT TERMINAL
JK3152	TJB18640	A/V TERMINAL
RL701	TSE1885	RELAY
RL801	TSE1885-1	RELAY ⚠
RTL	TNP107909AB	CIRCUIT BOARD **T** ⚠
RTL	TNP107979AH	CIRCUIT BOARD **B** ⚠
RTL	TNP107987AB	CIRCUIT BOARD **F** ⚠
RTL	TNP107995	CIRCUIT BOARD **P** ⚠
RTL	TNP117044	CIRCUIT BOARD **D** ⚠ (ONLY FOR TX-28WG10X)
RTL	TNP117044AC	CIRCUIT BOARD **D** ⚠ (ONLY FOR TX-24WG10X)
RTL	TNP117045	CIRCUIT BOARD **H** ⚠
RTL	TNP117046	CIRCUIT BOARD **X1** ⚠ (ONLY FOR TX-28WG10X)
RTL	TNP117046AA	CIRCUIT BOARD **X1** ⚠ (ONLY FOR TX-24WG10X)
RTL	TNP117047	CIRCUIT BOARD **X2** ⚠ (ONLY FOR TX-28WG10X)
RTL	TNP117047AA	CIRCUIT BOARD **X2** ⚠ (ONLY FOR TX-24WG10X)
RTL	TNP117048	CIRCUIT BOARD **Y1** ⚠
RTL	TNP117049	CIRCUIT BOARD **Z** ⚠ (ONLY FOR TX-28WG10X)
RTL	TNP117049AA	CIRCUIT BOARD **Z** ⚠ (ONLY FOR TX-24WG10X)
RTL	TNP117054	CIRCUIT BOARD **G** ⚠ (ONLY FOR TX-28WG10X)
RTL	TNP117054AB	CIRCUIT BOARD **G** ⚠ (ONLY FOR TX-24WG10X)
RTL	TNP117055	CIRCUIT BOARD **K1** ⚠ (ONLY FOR TX-28WG10X)
RTL	TNP117056	CIRCUIT BOARD **K2** ⚠ (ONLY FOR TX-24WG10X)
RTL	TNP117062	CIRCUIT BOARD **L** ⚠ (ONLY FOR TX-28WG10X)
RTL	TNP117062AB	CIRCUIT BOARD **L** ⚠ (ONLY FOR TX-24WG10X)

Ref.No.	Part No.	Description
RTL	TNP197088	CIRCUIT BOARD **A** ⚠ (ONLY FOR TX-28WG10X)
RTL	TNP197088AA	CIRCUIT BOARD **A** ⚠ (ONLY FOR TX-24WG10X)
S001	EVQPFD04R	SWITCH
S002	EVQPFD04R	SWITCH
S003	EVQPFD04R	SWITCH
S004	EVQPFD04R	SWITCH
S005	EVQPFD04R	SWITCH
S006	EVQPFD04R	SWITCH
S007	EVQPFD04R	SWITCH
S1001	ESB41A1152Z	SWITCH
SW1	ESD11V120	SWITCH
X1	CSB440JB6	CERAMIC OSC
X101	TFCH38MVK06	SAW FILTER
X102	EFCWM5F01A	CERAMIC FILTER
X106	TFCH315SK01	SAW FILTER
X201	EFCS4R5MS5	CERAMIC FILTER
X202	EFCS5R5KS4	CERAMIC FILTER
X204	EFCS6R5MS5	CERAMIC FILTER
X205	SFSH6R0MDB	CERAMIC FILTER
X206	CSB1000J527	CERAMIC FILTER
X501	TAFCSB503F30	CERAMIC RESONATOR
X601	TSS816N1	CRYSTAL
X603	TSS816N2	CRYSTAL
X1210	EF0EC6004A4	CERAMIC FILTER 6M
X2002	TSS2061-M	CRYSTAL
X2006	EFCA5R5MB3	CERAMIC TRAP
X2010	TSS2140-M	CRYSTAL
X2020	TSS2139-M	CRYSTAL
X2106	EFCS5R74KS4	CERAMIC FILTER
X2201	TSS2076-M	CRYSTAL
X3503	TSS970K	CRYSTAL
X3506	TSS2121-B	CRYSTAL
X5501	EFCA4R43MB3	CERAMIC FILTER
	TZS709010	EXTENTION CABLE KIT